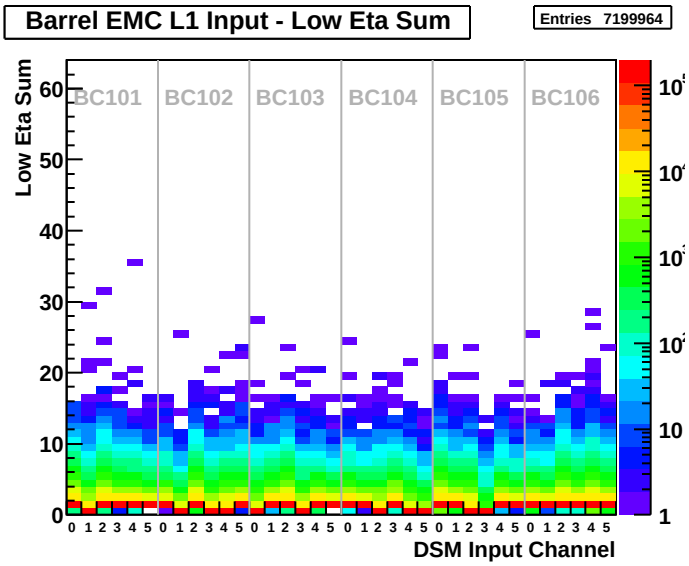
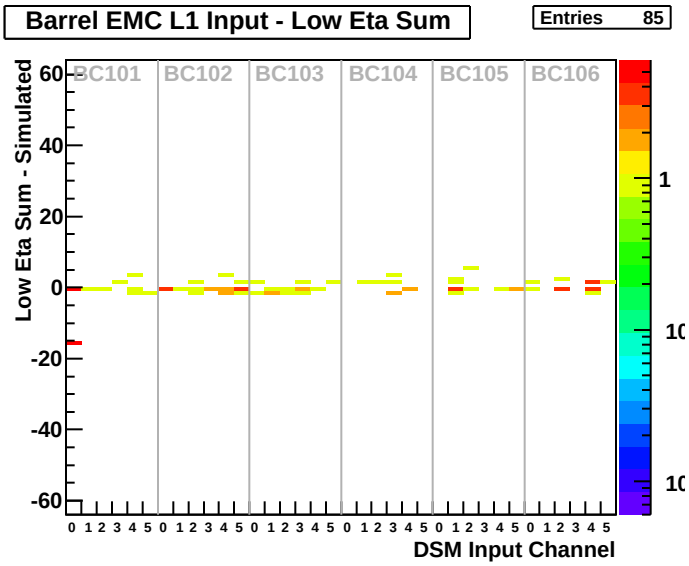
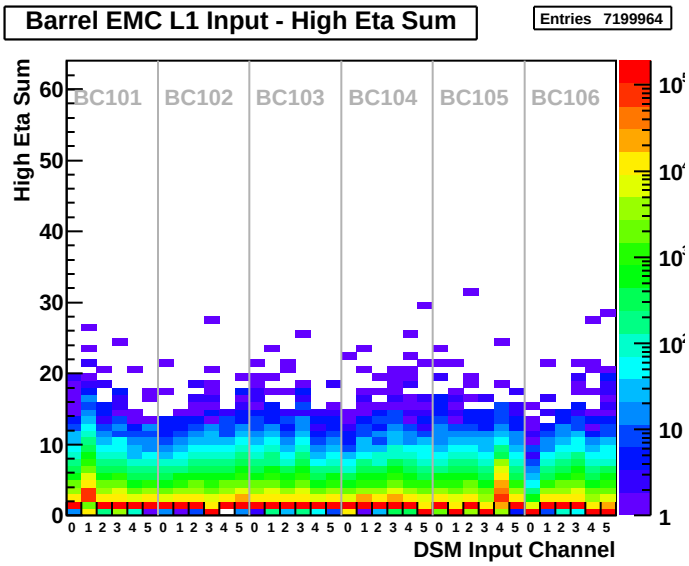
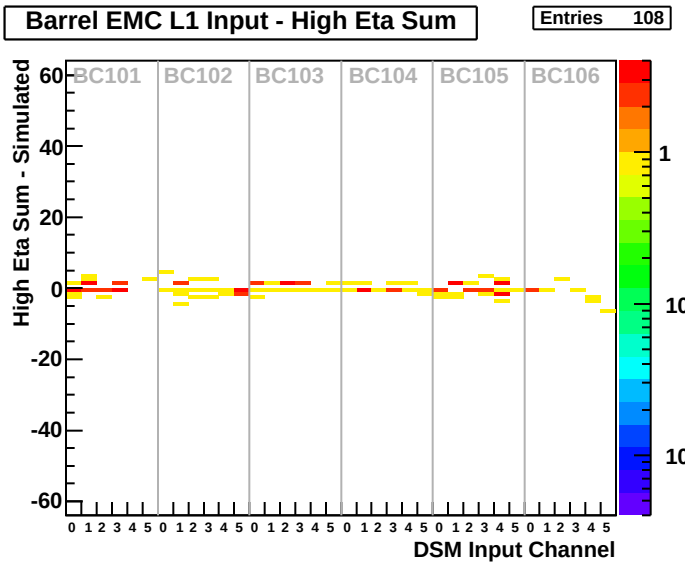
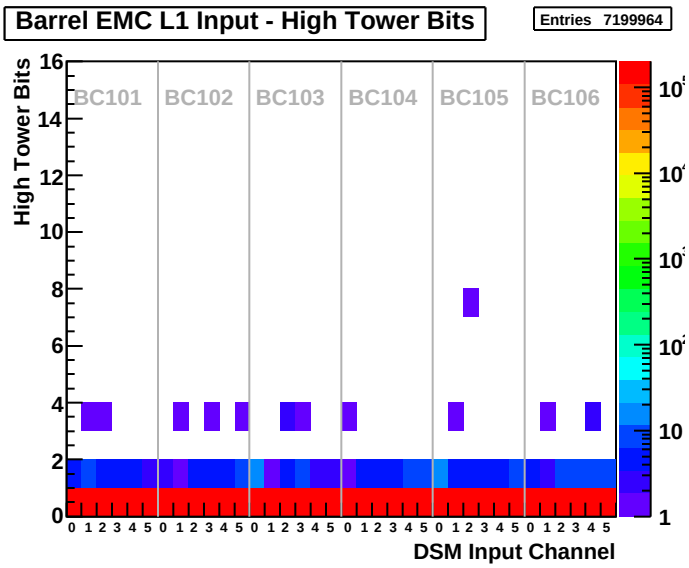
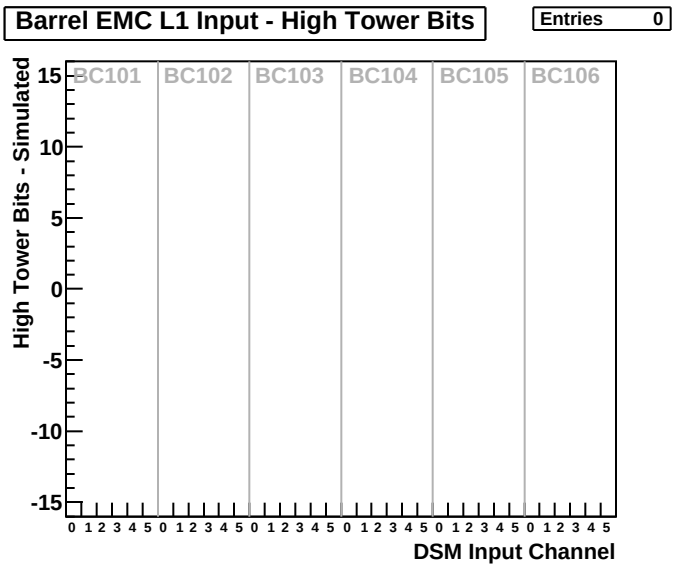

Barrel EMC L1 Input - Low Eta Sum
Entries 7199964
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

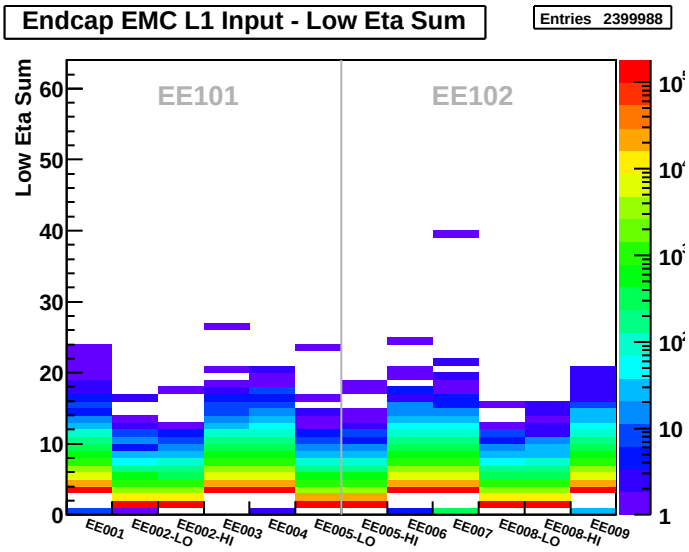

Barrel EMC L1 Input - Low Eta Sum
Entries 85
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

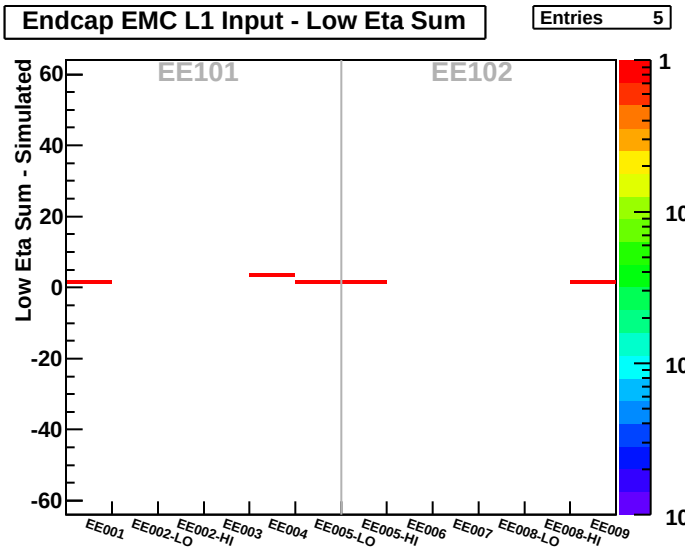

Barrel EMC L1 Input - High Eta Sum
Entries 7199964
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

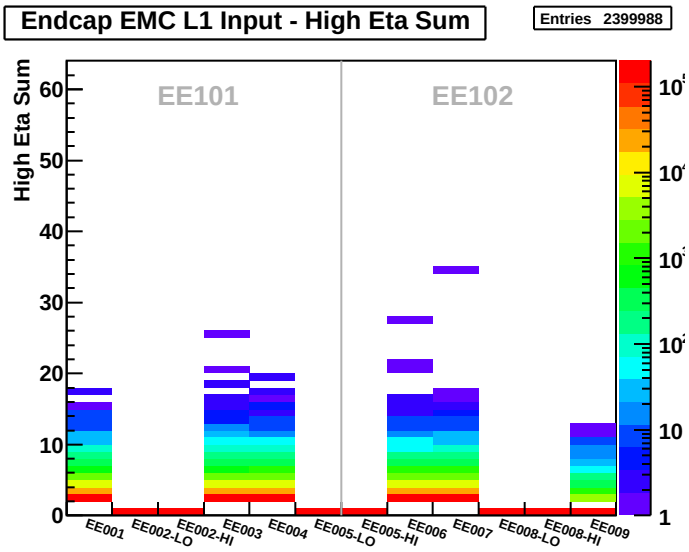

Barrel EMC L1 Input - High Eta Sum
Entries 108
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

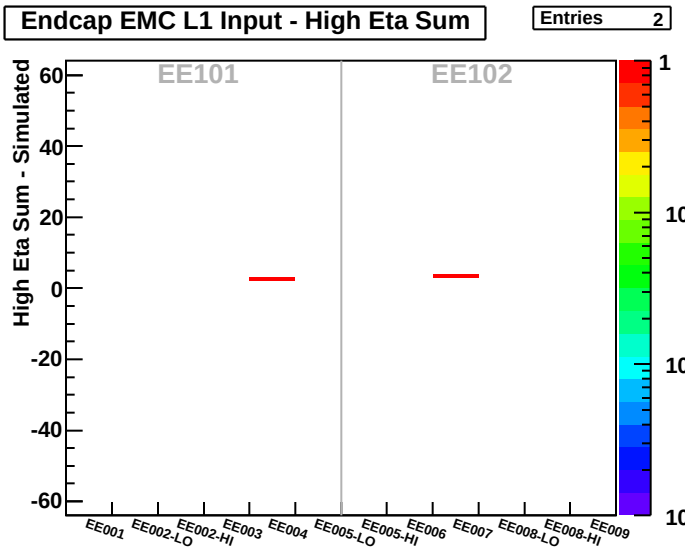

Barrel EMC L1 Input - High Tower Bits
Entries 7199964
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

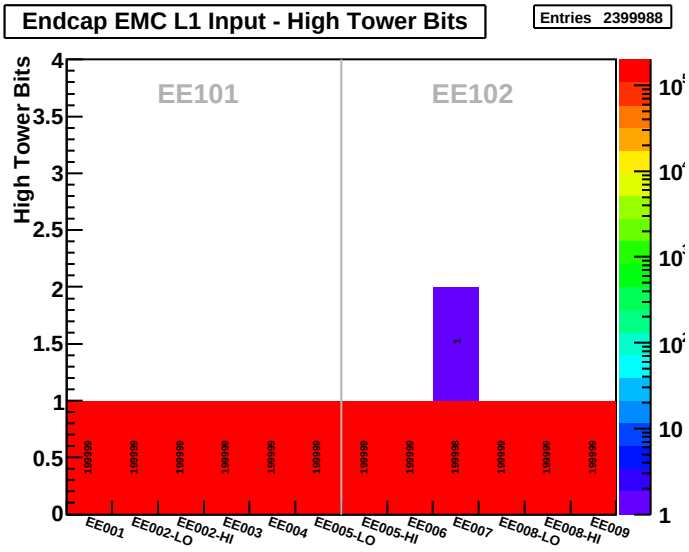

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

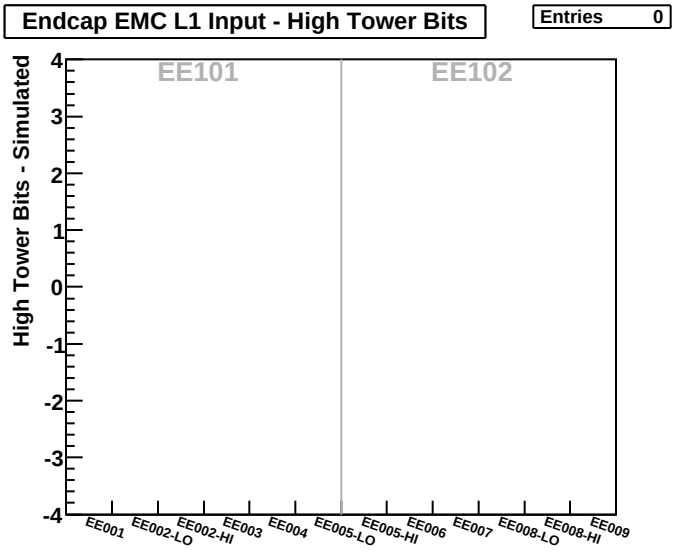

Endcap EMC L1 Input - Low Eta Sum
Entries 2399988
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

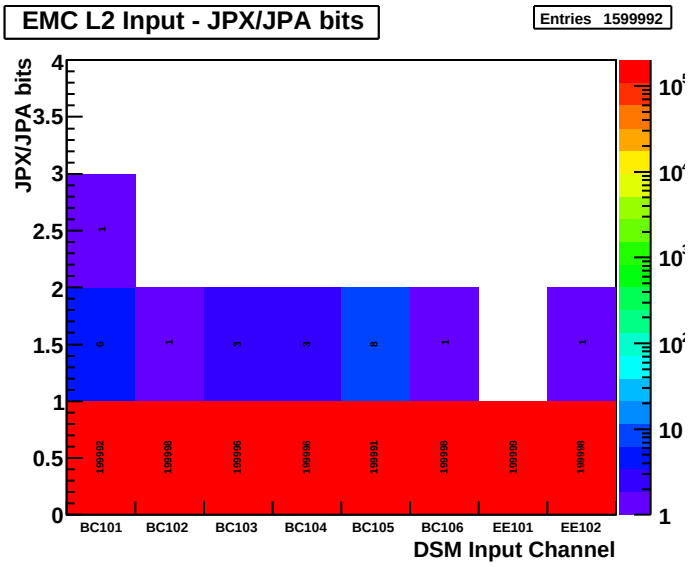

Endcap EMC L1 Input - Low Eta Sum
Entries 5
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

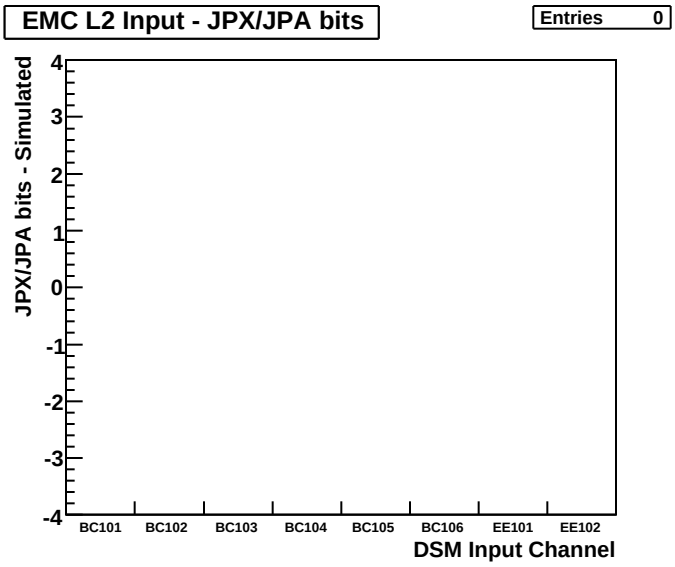

Endcap EMC L1 Input - High Eta Sum
Entries 2399988
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

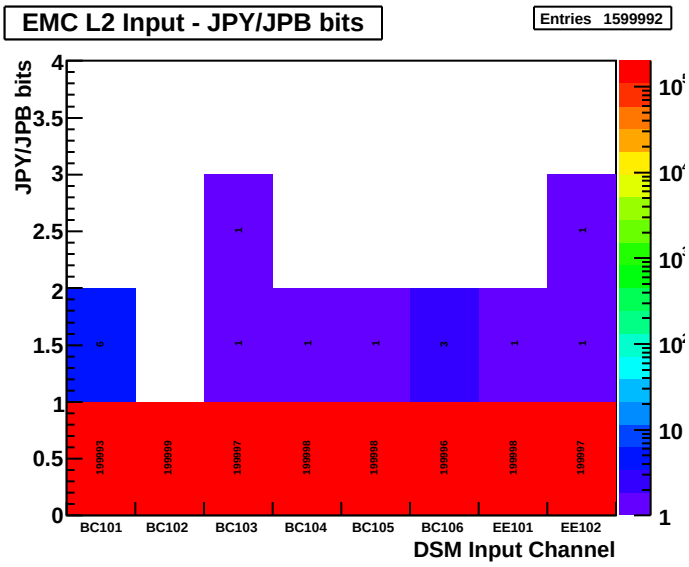

Endcap EMC L1 Input - High Eta Sum
Entries 2
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

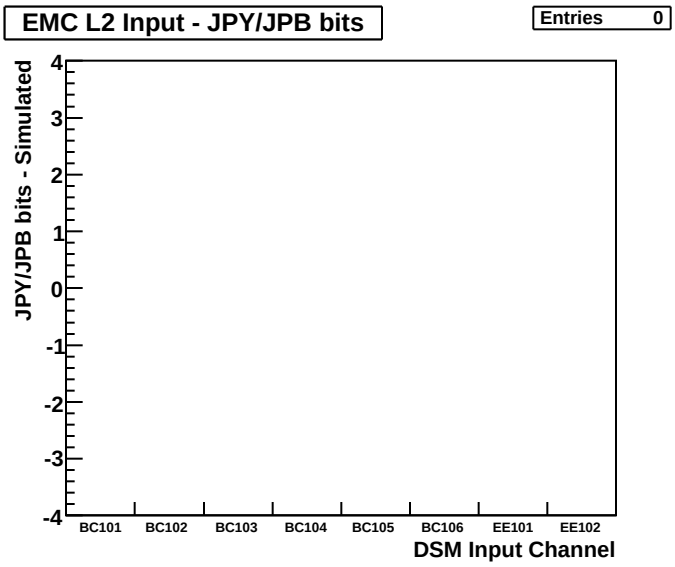

Endcap EMC L1 Input - High Tower Bits
Entries 2399988
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

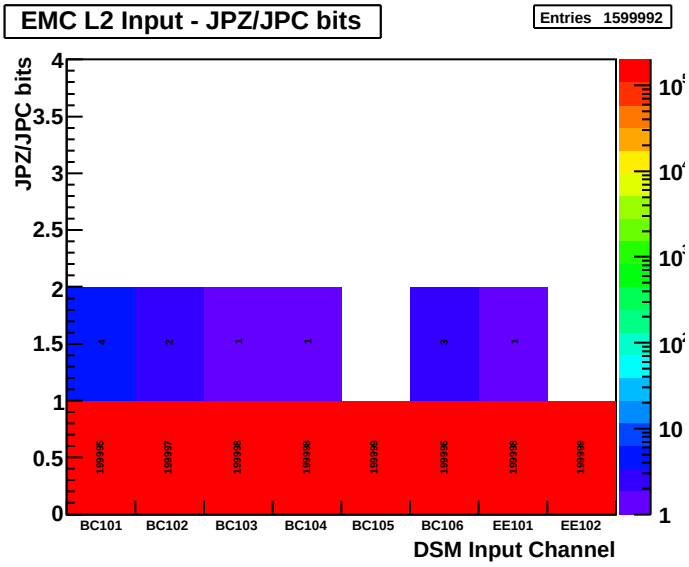

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

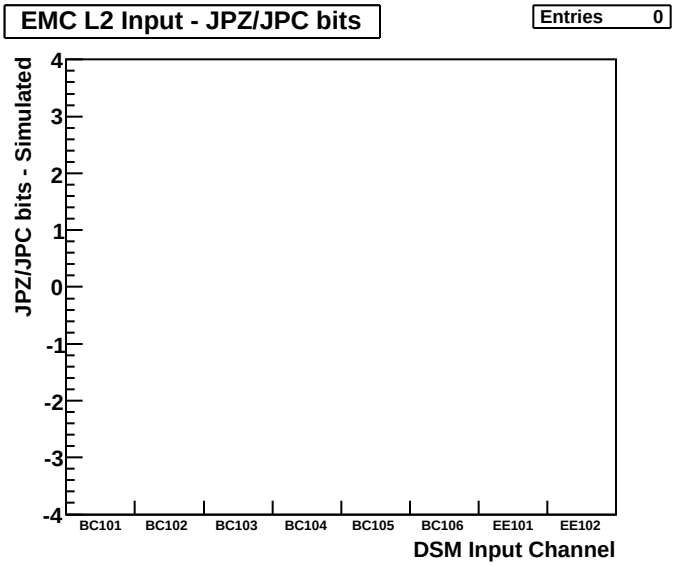

EMC L2 Input - JPX/JPA bits
Entries 1599992
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

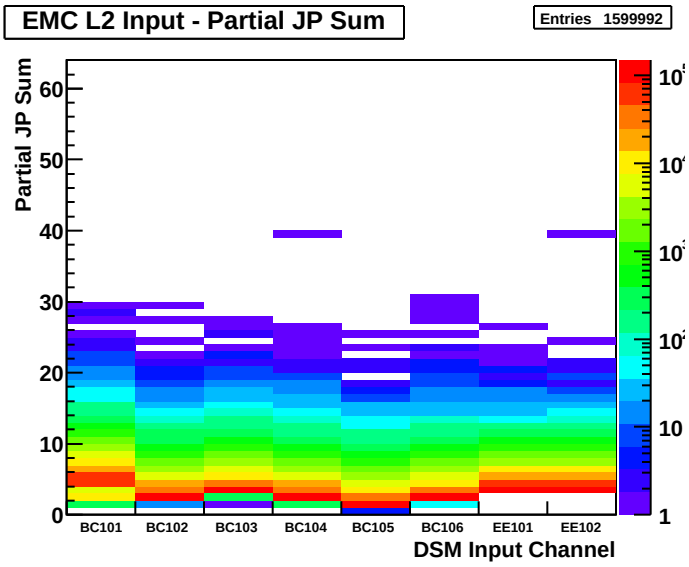

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

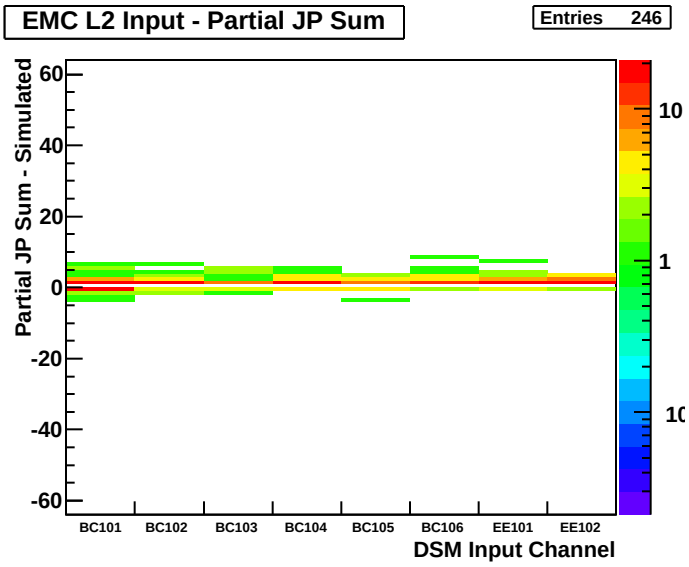

EMC L2 Input - JPY/JPB bits
Entries 1599992
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

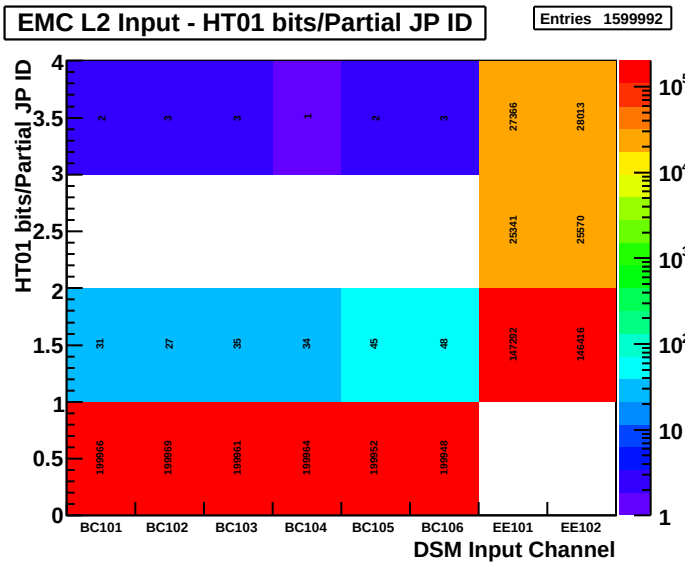

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

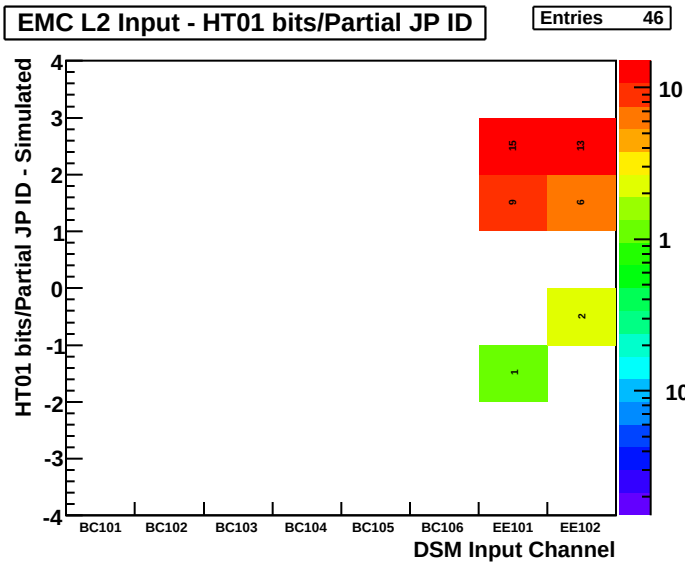

EMC L2 Input - JPZ/JPC bits
Entries 1599992
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

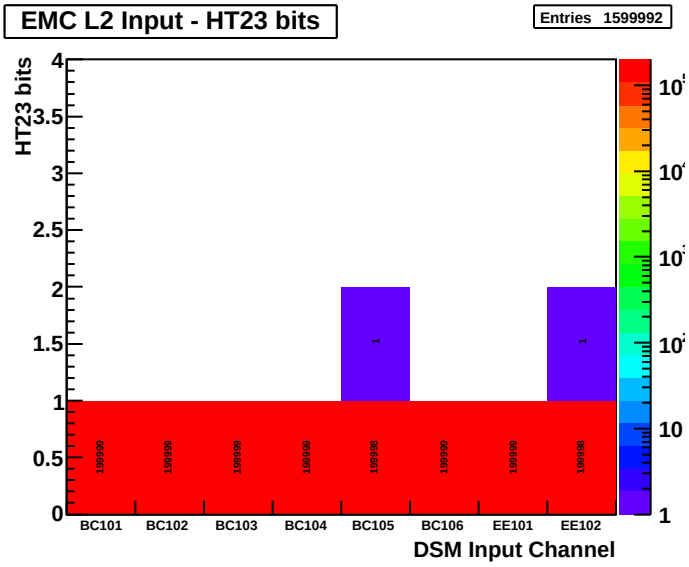

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

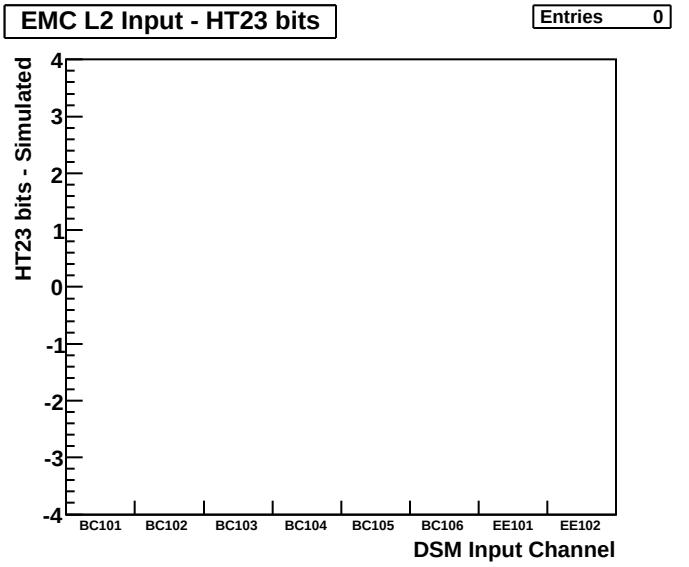

EMC L2 Input - Partial JP Sum
Entries 1599992
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

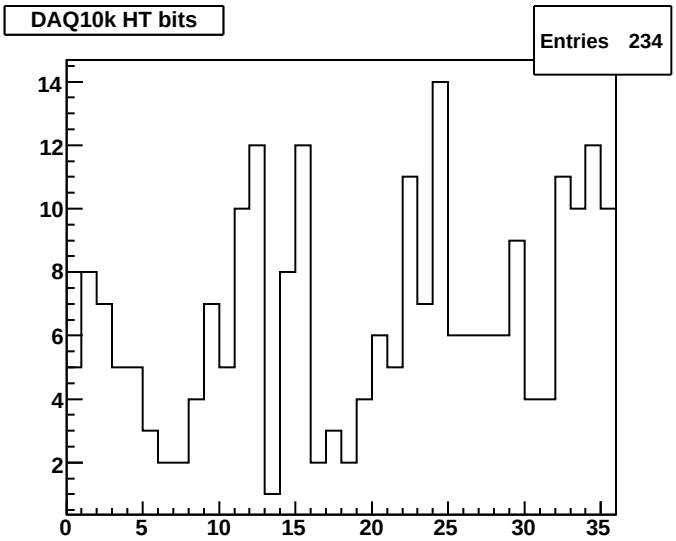

EMC L2 Input - Partial JP Sum
Entries 246
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

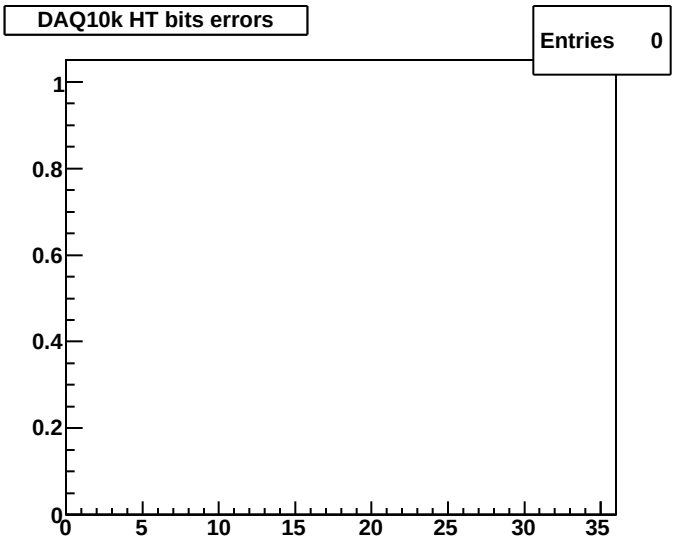

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1599992
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

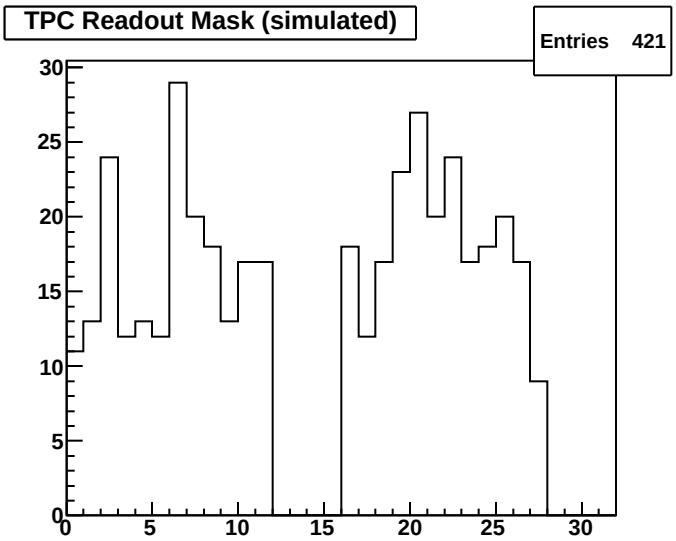

EMC L2 Input - HT01 bits/Partial JP ID
Entries 46
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

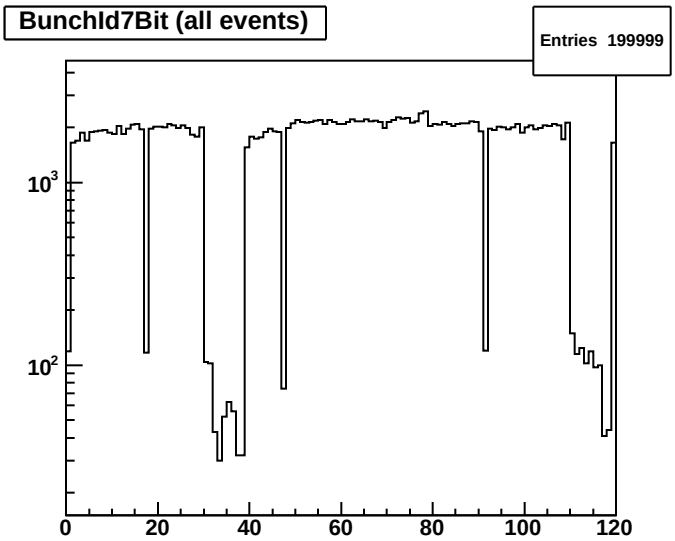

EMC L2 Input - HT23 bits
Entries 1599992
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

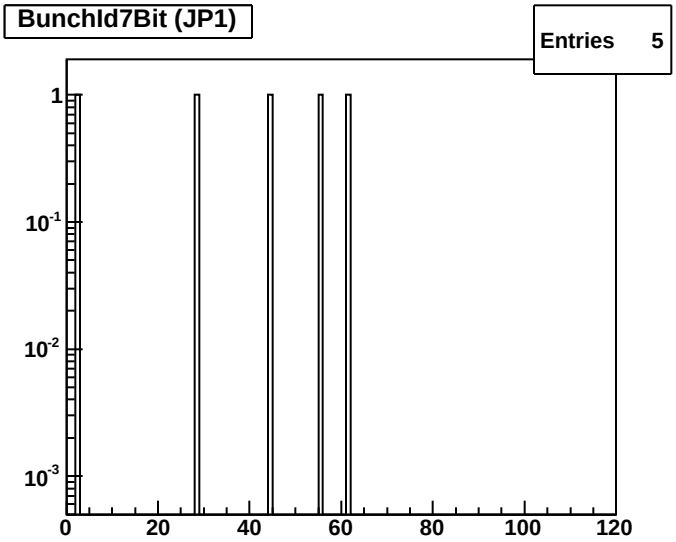

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

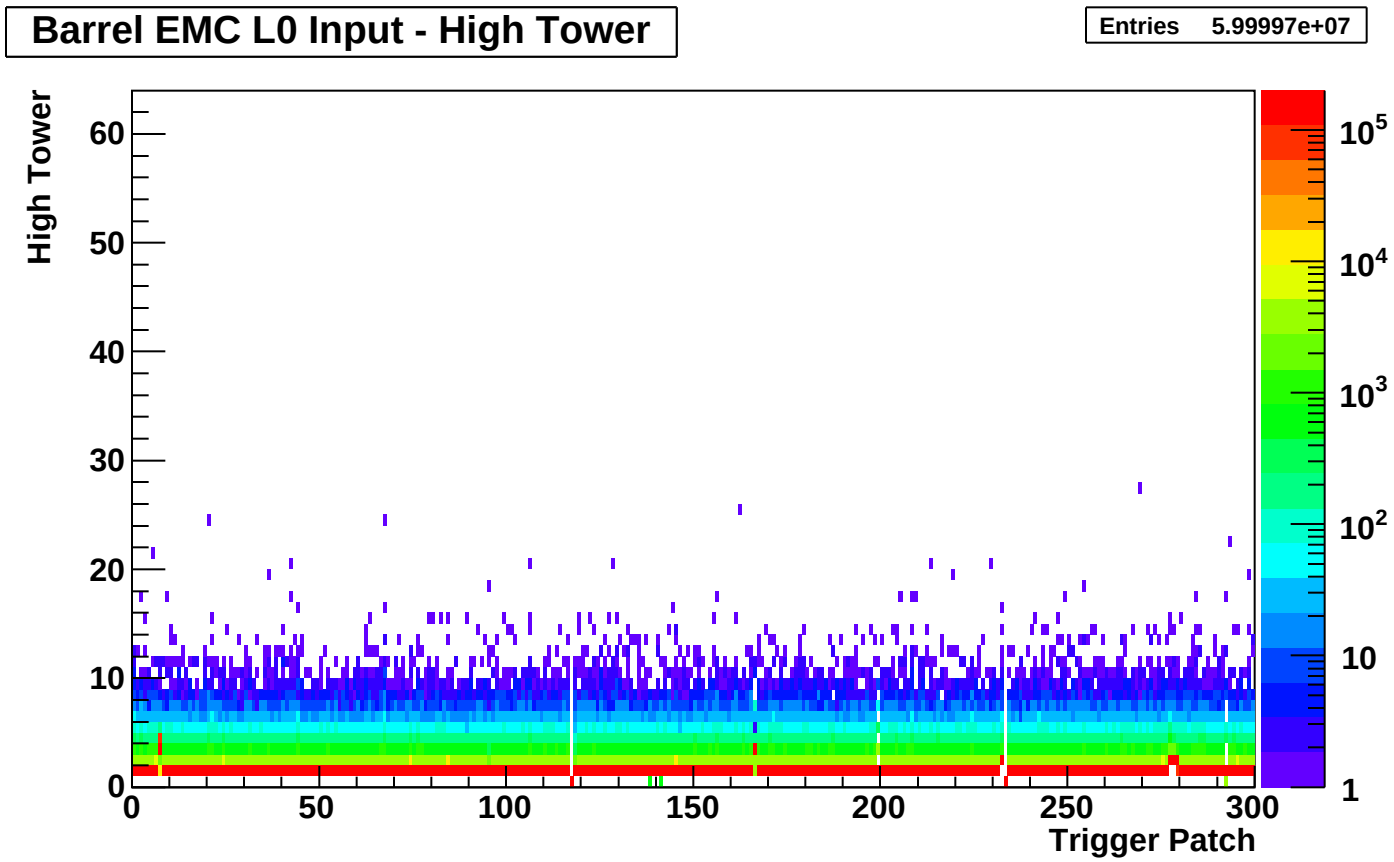

DAQ10k HT bits
Entries 234

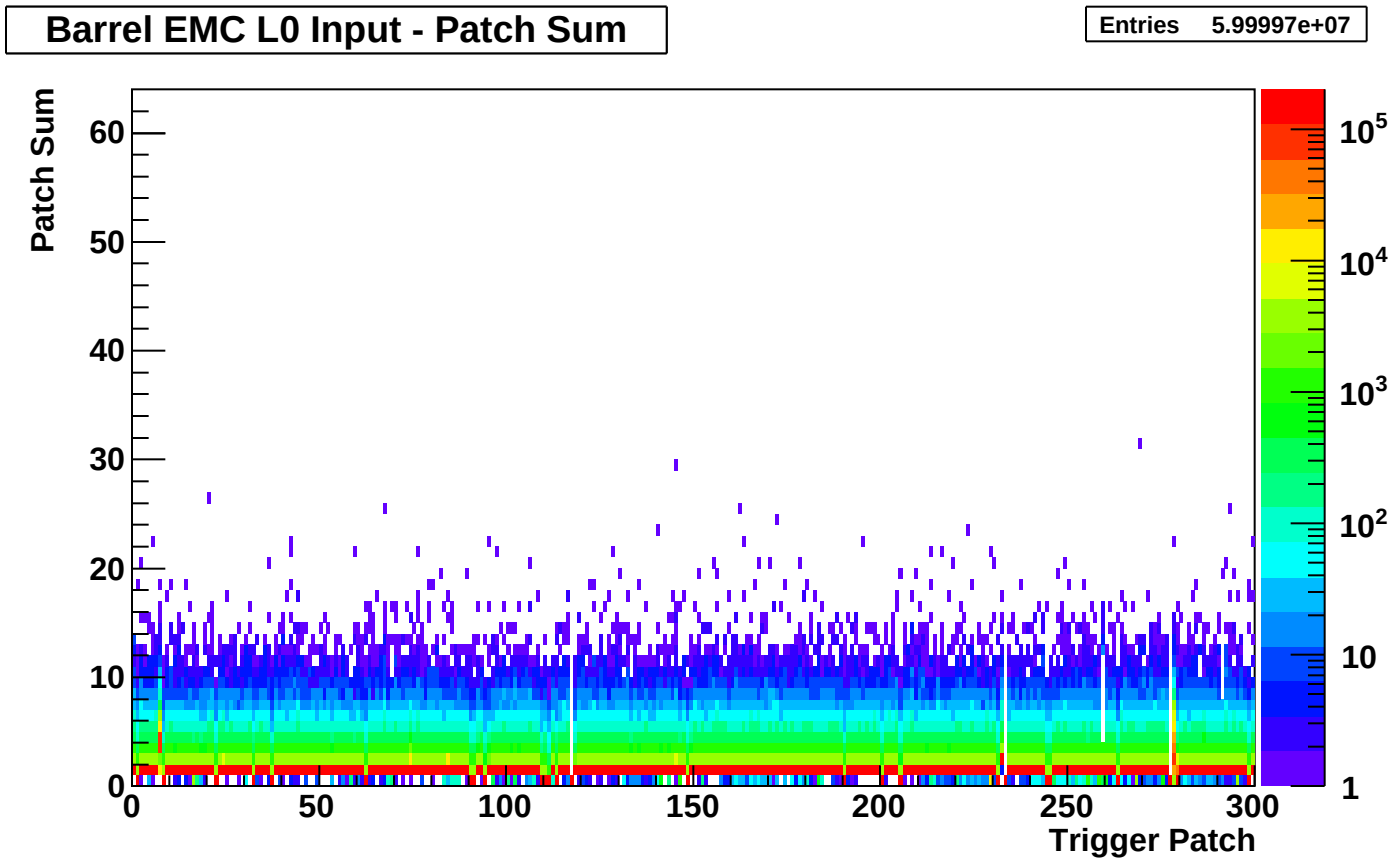

DAQ10k HT bits errors
Entries 0

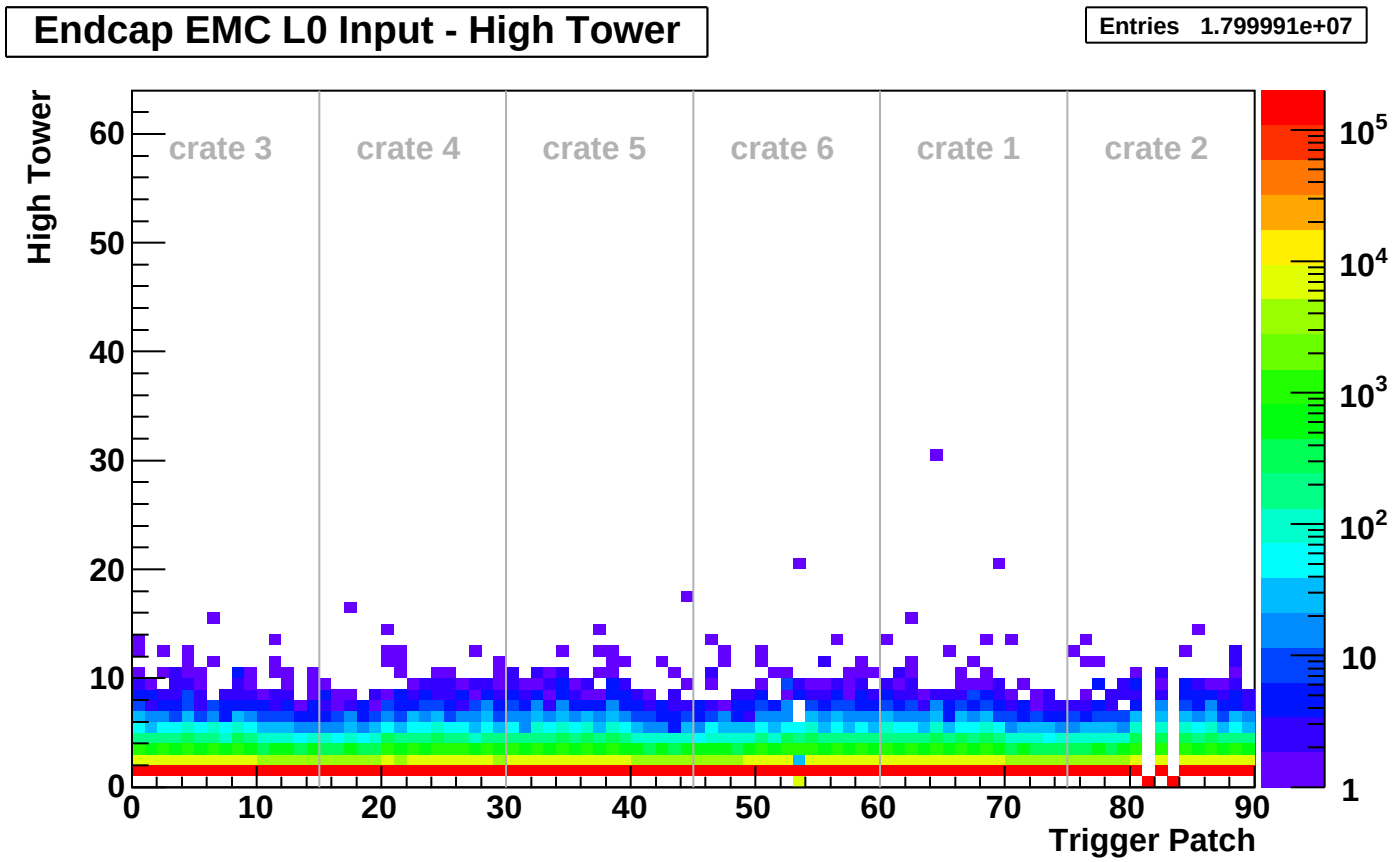

TPC Readout Mask (simulated)
Entries 421

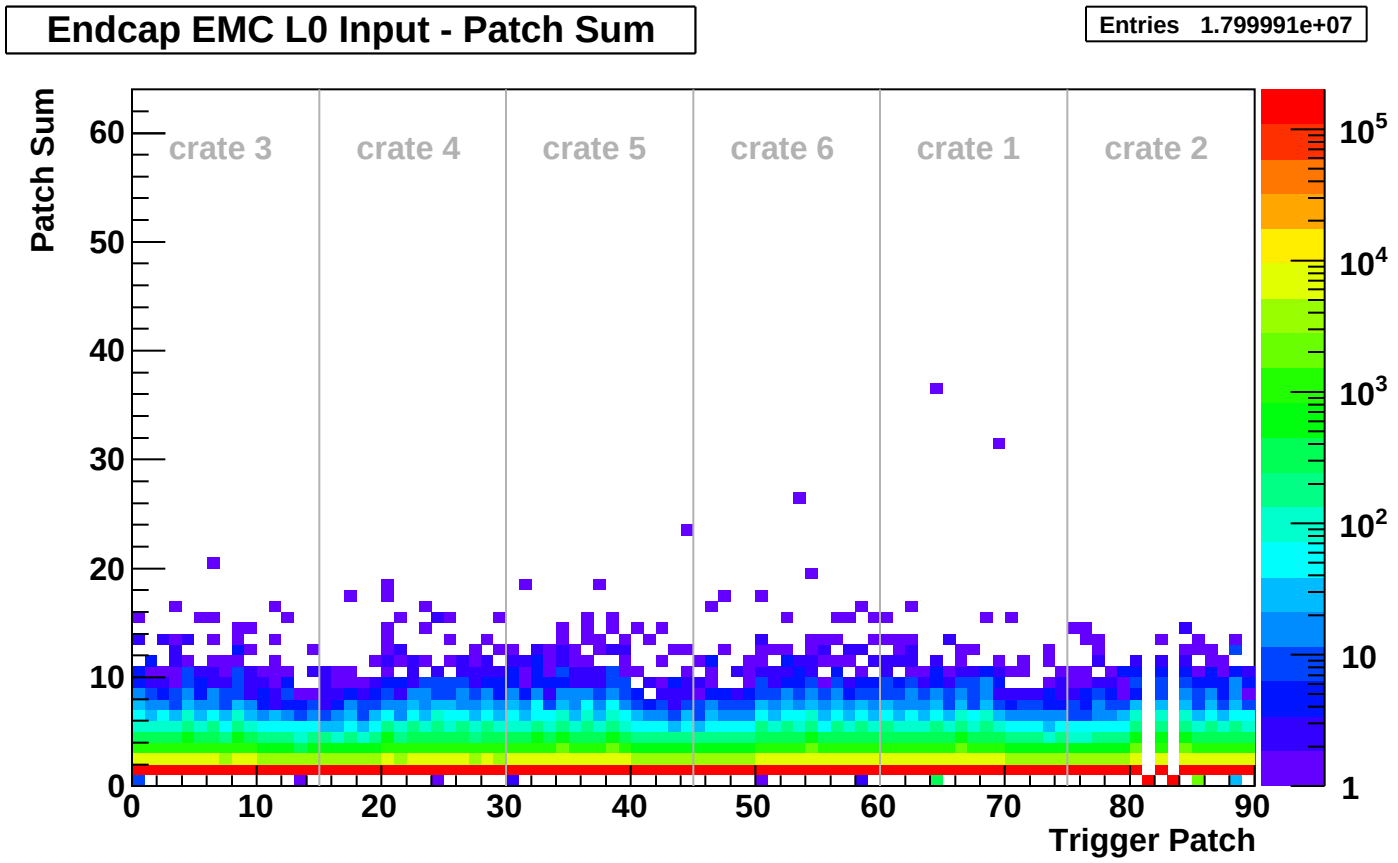

BunchId7Bit (all events)
Entries 199999

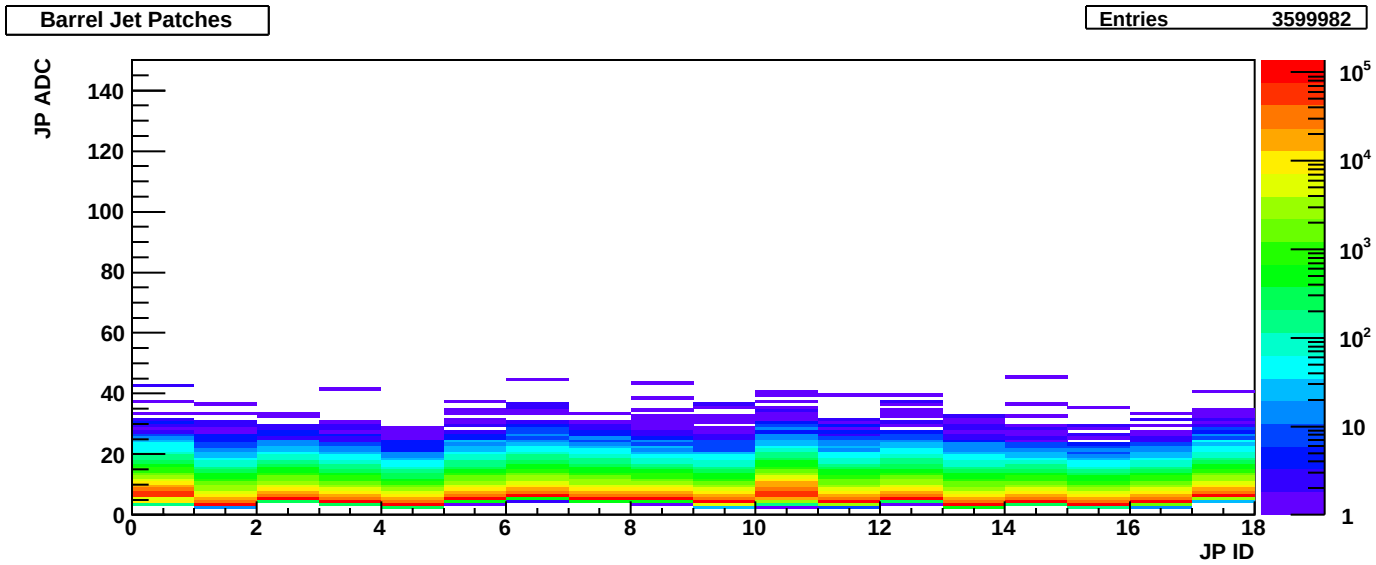

BunchId7Bit (JP1)
Entries 5

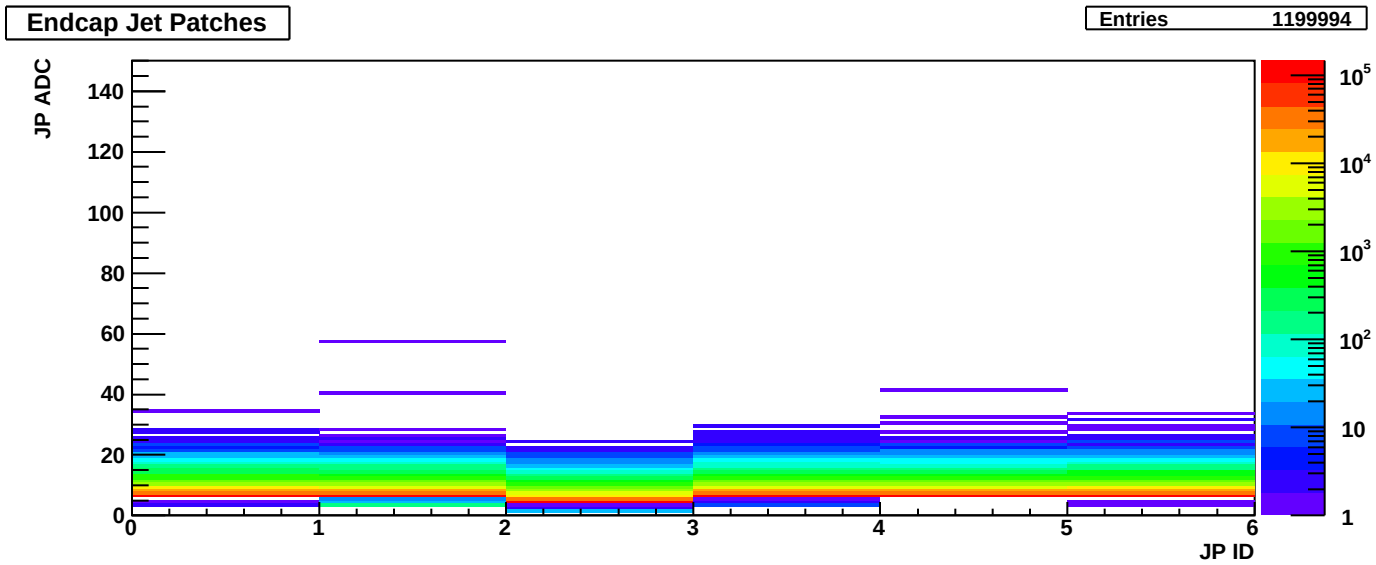

Barrel EMC L0 Input - High Tower
Entries 5.99997e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

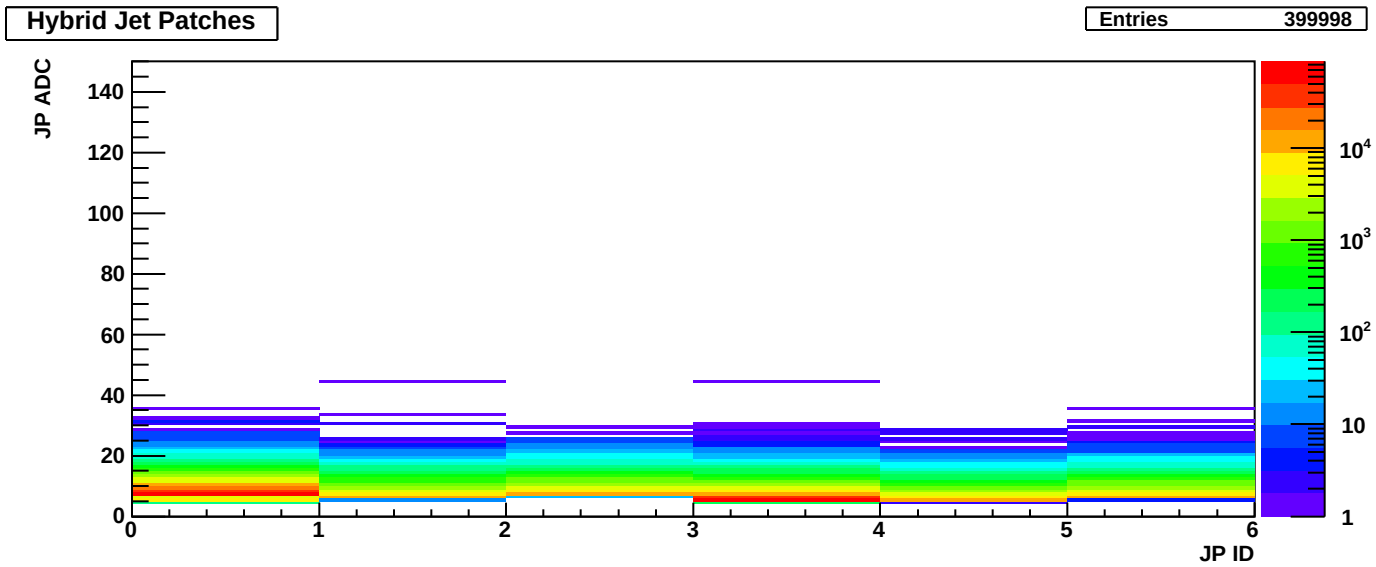

Barrel EMC L0 Input - Patch Sum
Entries 5.99997e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

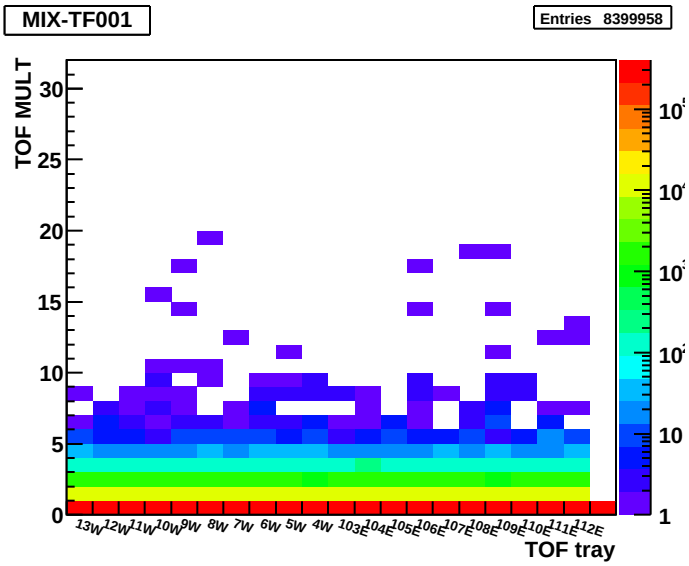

Endcap EMC L0 Input - High Tower
Entries 1.799991e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

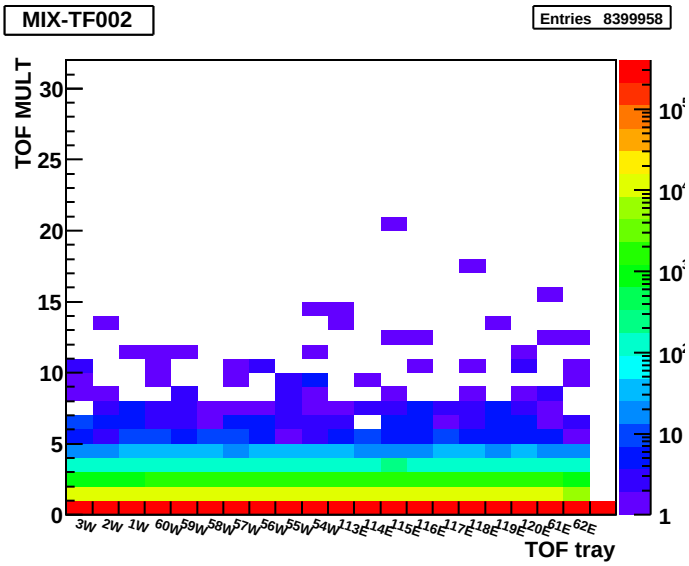

Endcap EMC L0 Input - Patch Sum
Entries 1.799991e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

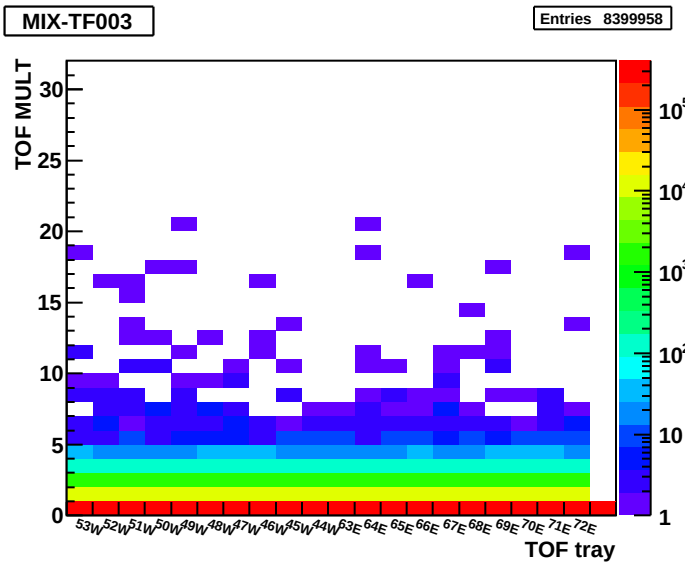

Barrel Jet Patches
Entries 3599982
JP ADC
JP ID

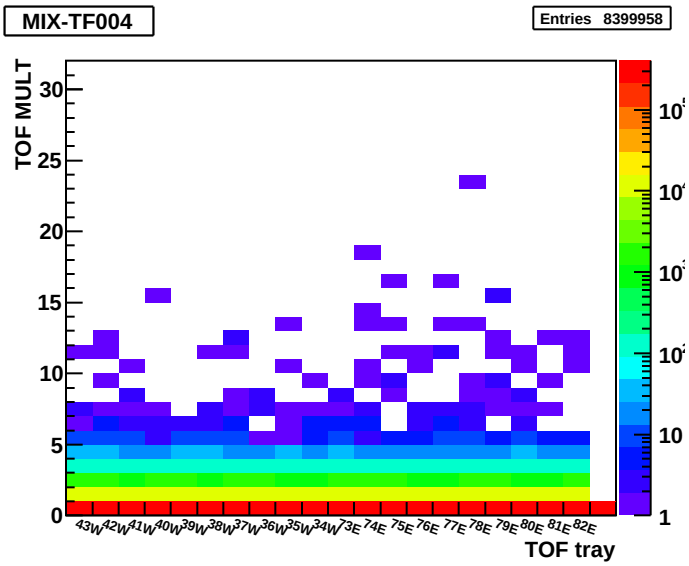

Endcap Jet Patches
Entries 1199994
JP ADC
JP ID

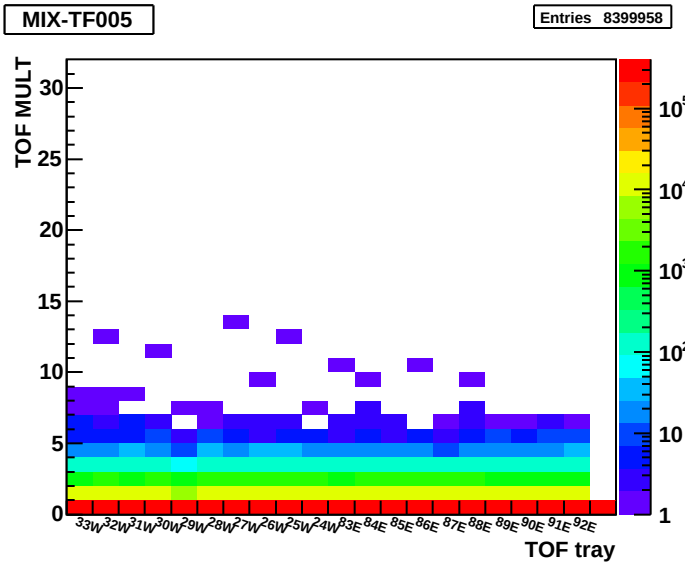

Hybrid Jet Patches
Entries 399998
JP ADC
JP ID

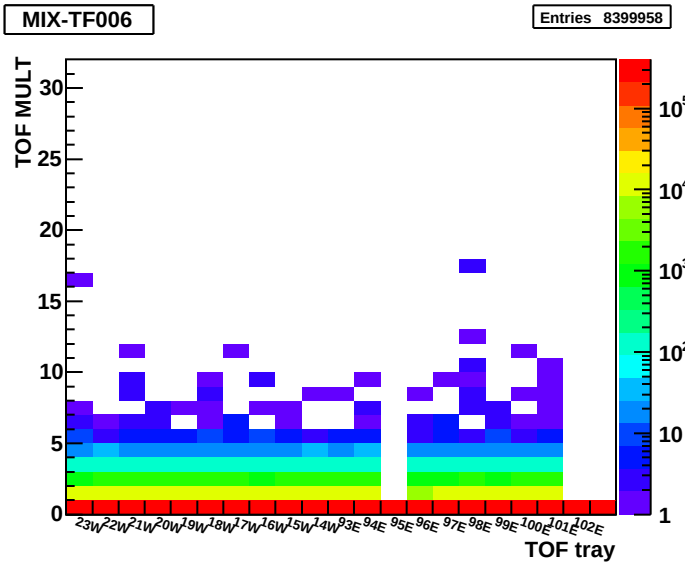

MIX-TF001
Entries 8399958
TOF MULT
TOF tray

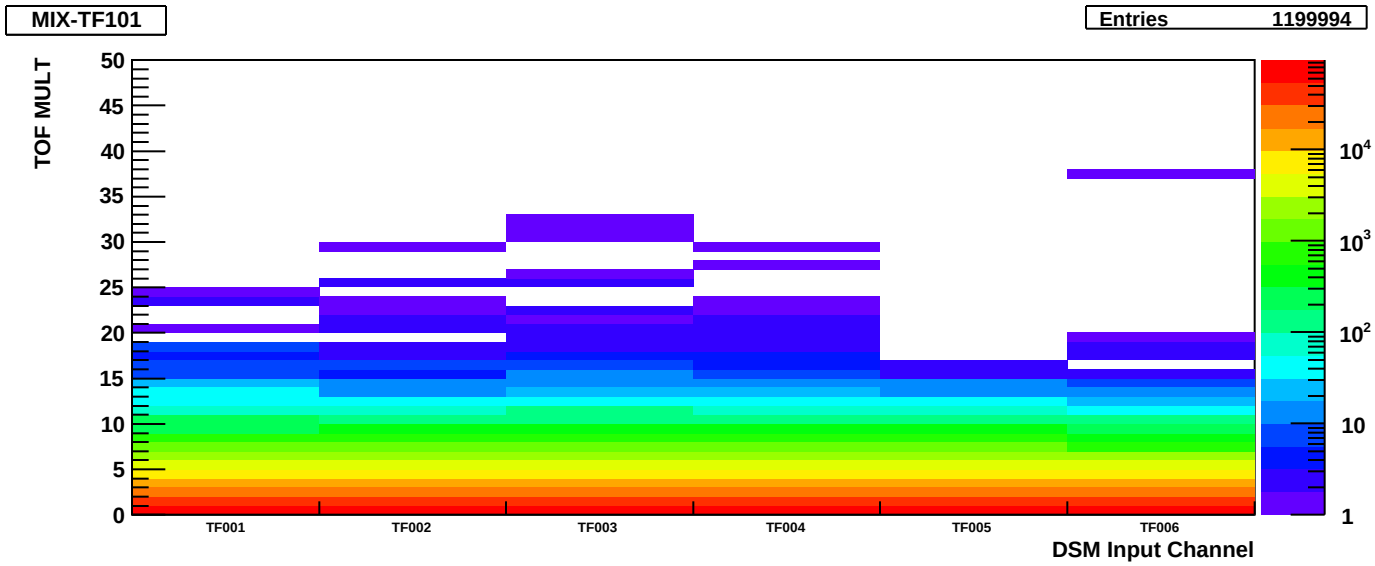

MIX-TF002
Entries 8399958
TOF MULT
TOF tray

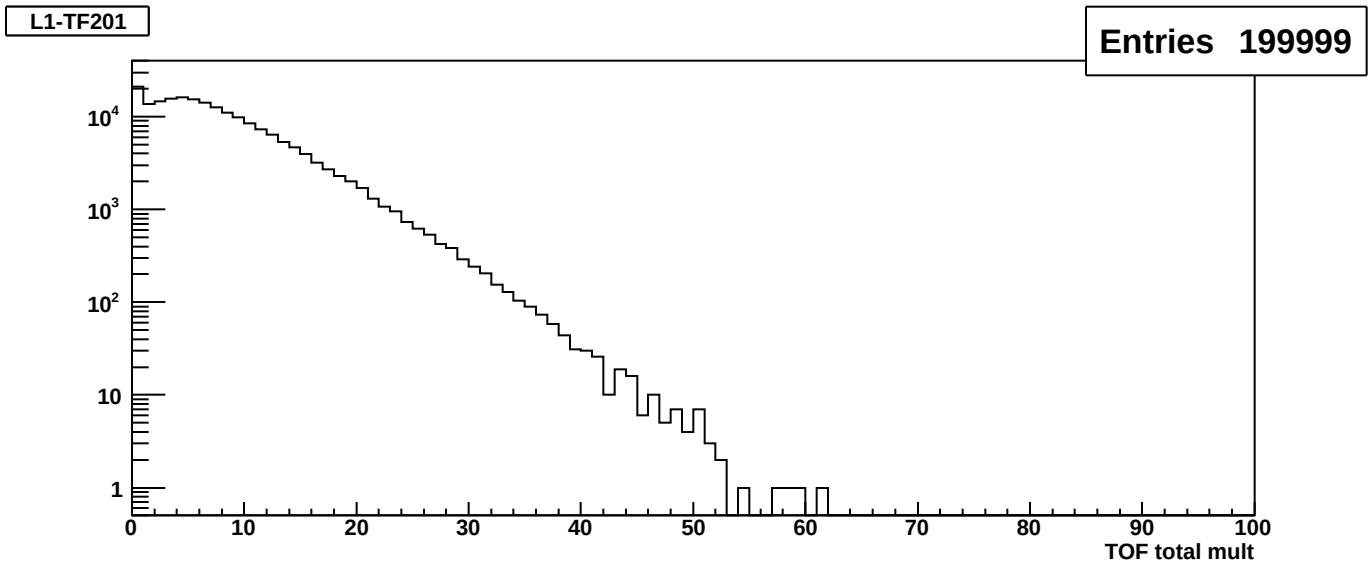

MIX-TF003
Entries 8399958
TOF MULT
TOF tray

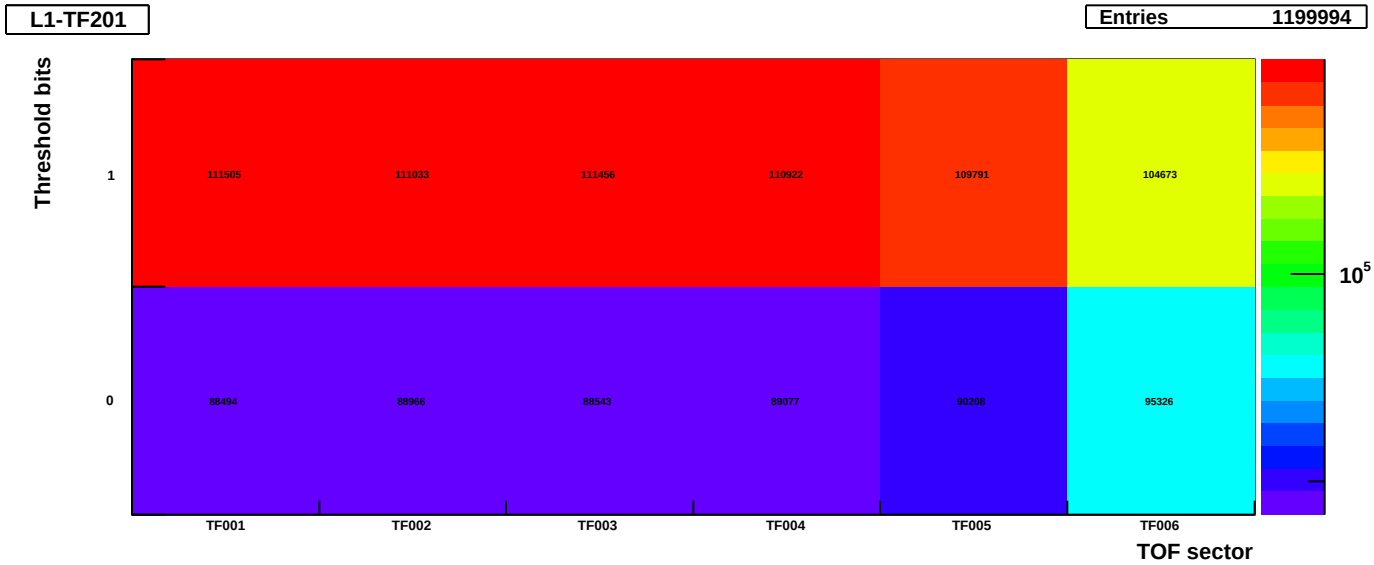

MIX-TF004
Entries 8399958
TOF MULT
TOF tray

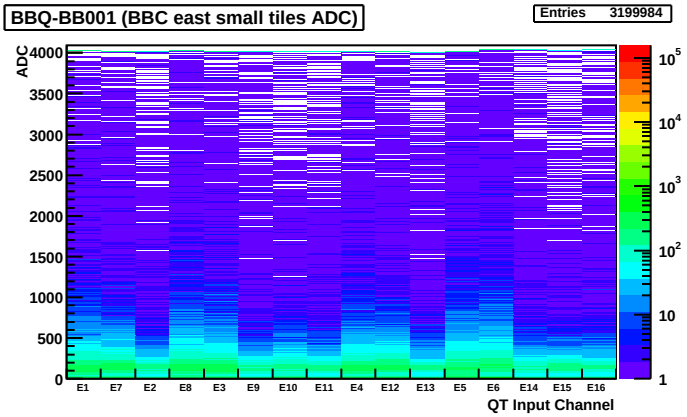

MIX-TF005
Entries 8399958
TOF MULT
TOF tray

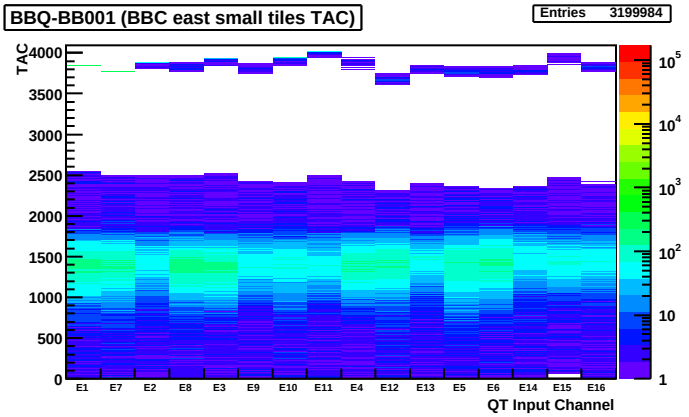

MIX-TF006
Entries 8399958
TOF MULT
TOF tray

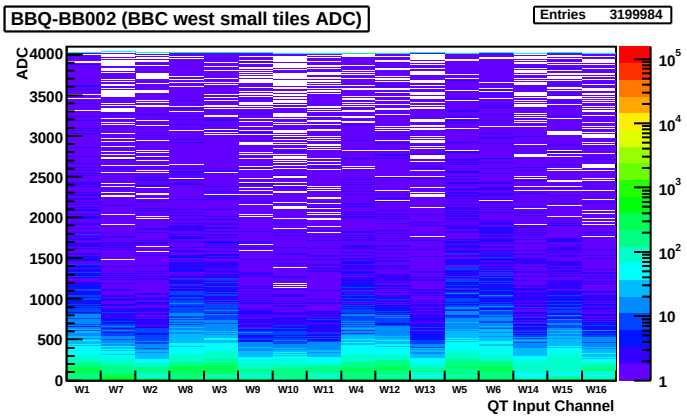

MIX-TF101
Entries 1199994
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

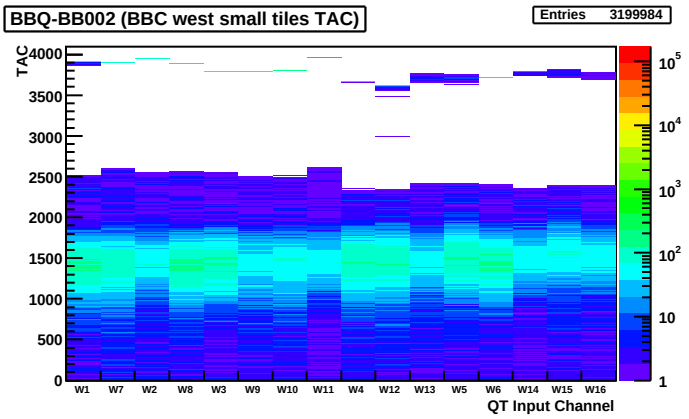

L1-TF201
Entries 199999
TOF total mult

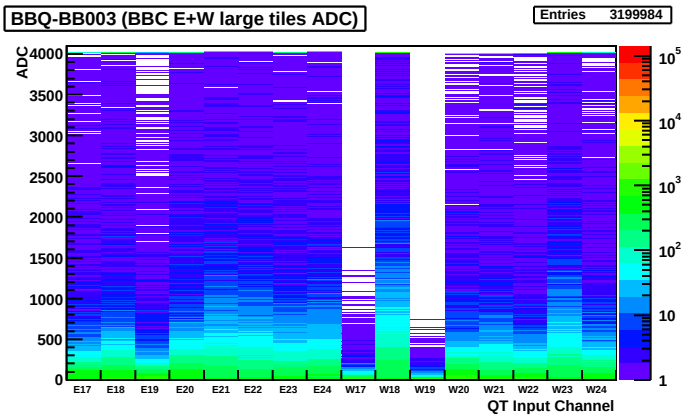

L1-TF201
Entries 1199994
Threshold bits
111505
111033
111456
110922
109791
104673
88494
88966
88543
89077
90208
95326
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

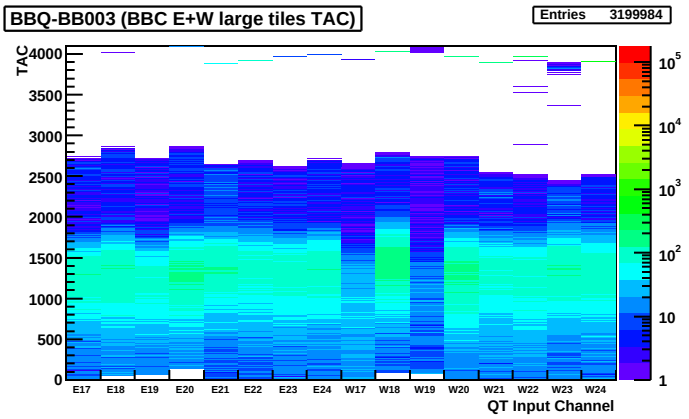

BBQ-BB001 (BBC east small tiles ADC)
Entries 3199984
ADC
QT Input Channel

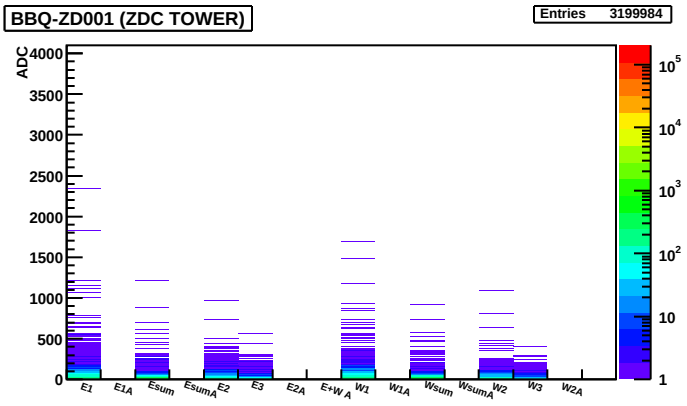

BBQ-BB001 (BBC east small tiles TAC)
Entries 3199984
TAC
QT Input Channel

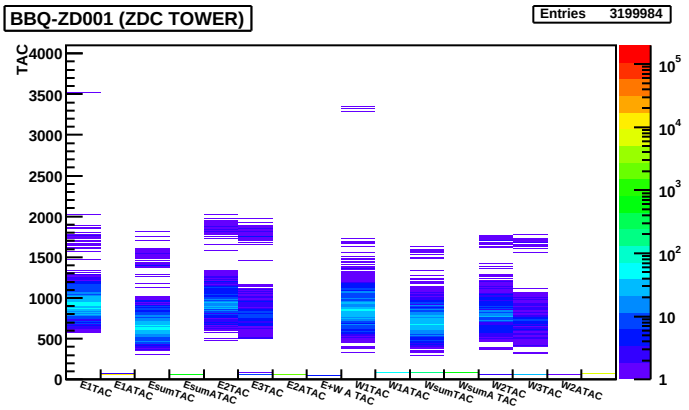

BBQ-BB002 (BBC west small tiles ADC)
Entries 3199984
ADC
QT Input Channel

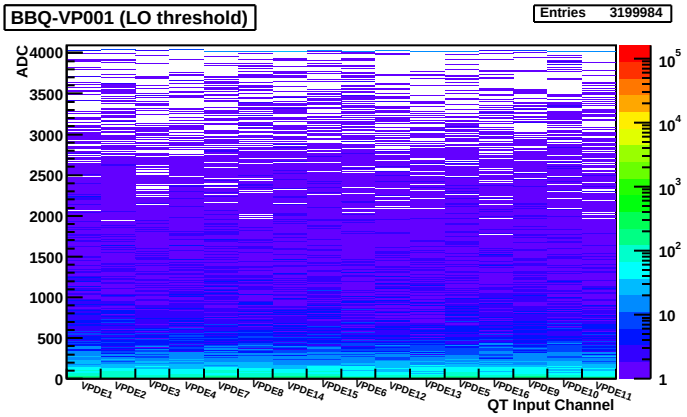

BBQ-BB002 (BBC west small tiles TAC)
Entries 3199984
TAC
QT Input Channel

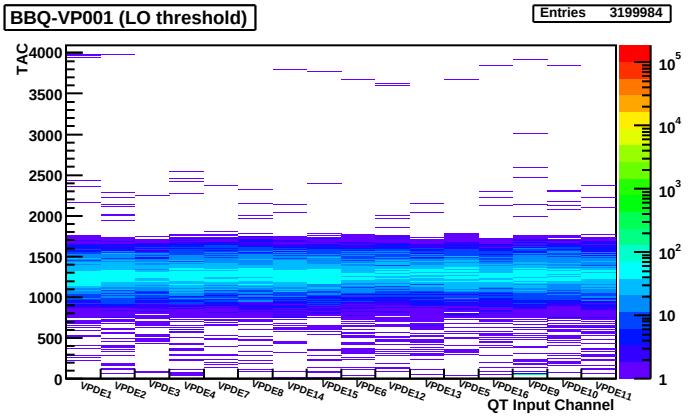

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3199984
ADC
QT Input Channel

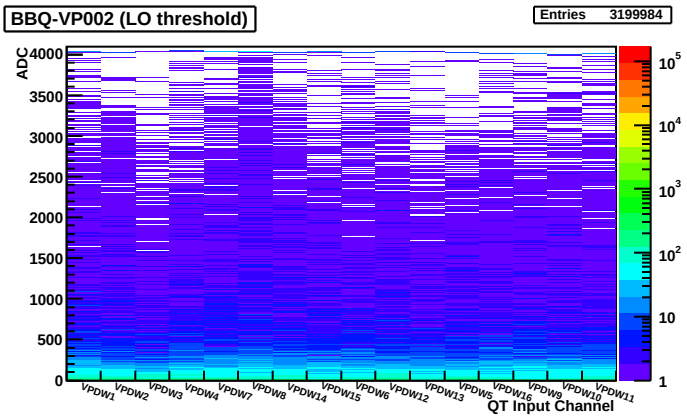

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3199984
TAC
QT Input Channel

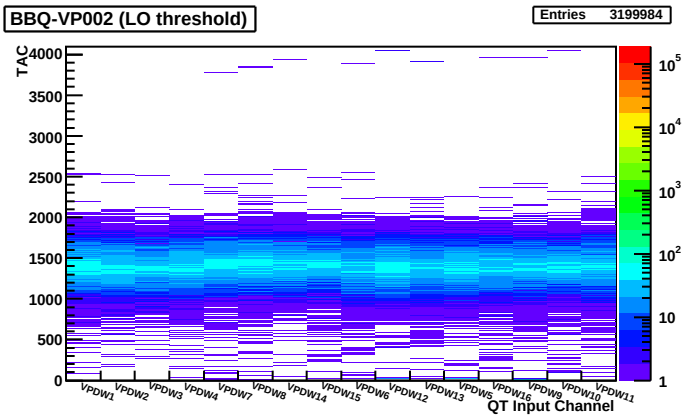

BBQ-ZD001 (ZDC TOWER)
Entries 3199984
ADC

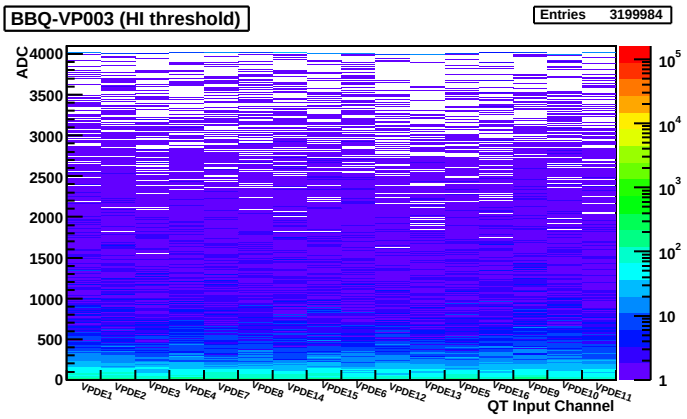

BBQ-ZD001 (ZDC TOWER)
Entries 3199984
TAC

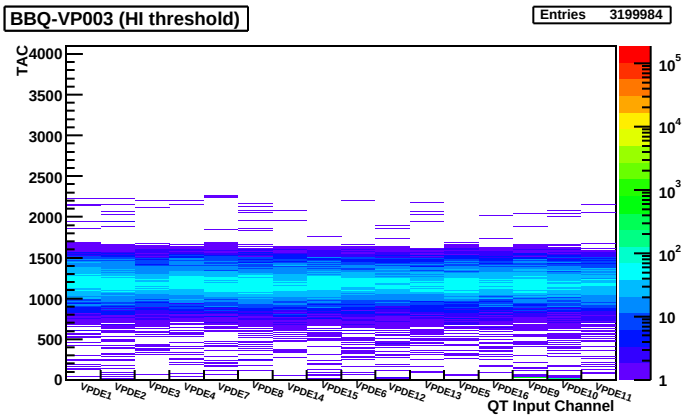

BBQ-VP001 (LO threshold)
Entries 3199984
ADC
QT Input Channel

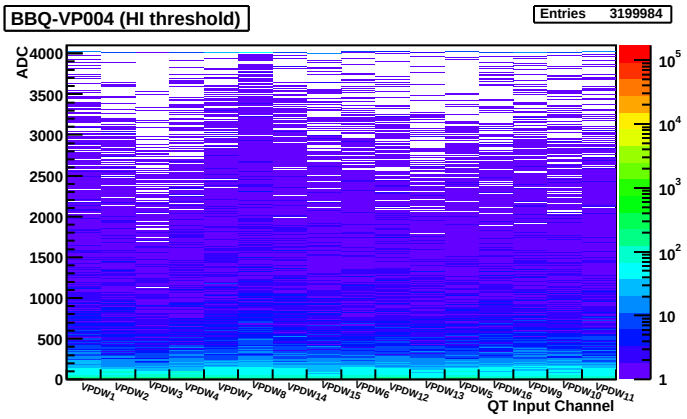

BBQ-VP001 (LO threshold)
Entries 3199984
TAC
QT Input Channel

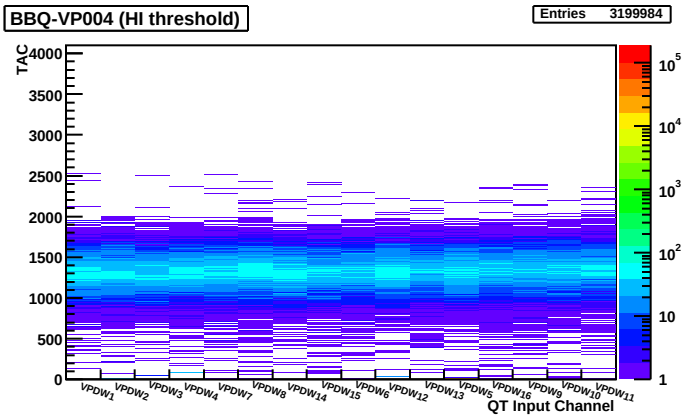

BBQ-VP002 (LO threshold)
Entries 3199984
ADC
QT Input Channel

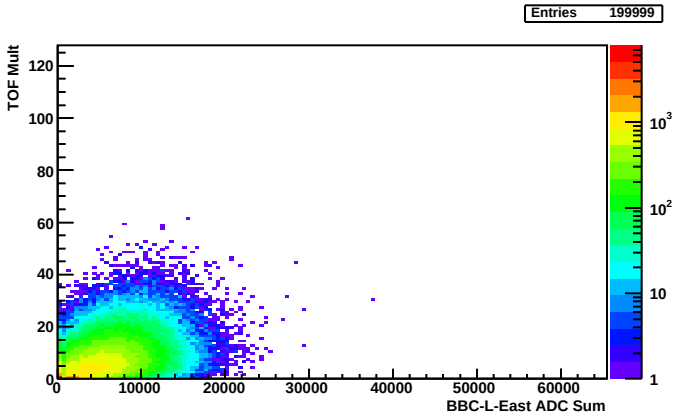

BBQ-VP002 (LO threshold)
Entries 3199984
TAC
QT Input Channel

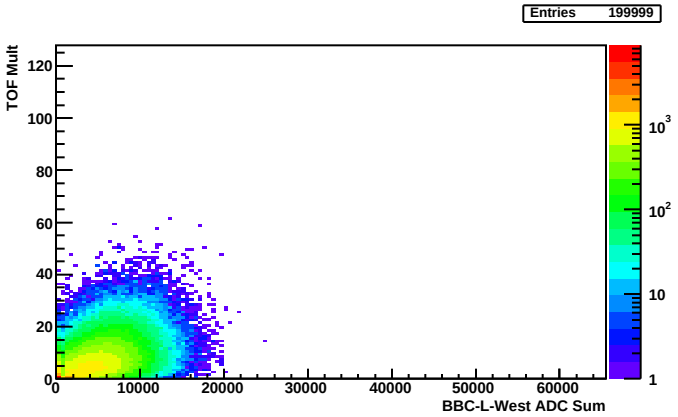

BBQ-VP003 (HI threshold)
Entries 3199984
ADC
QT Input Channel

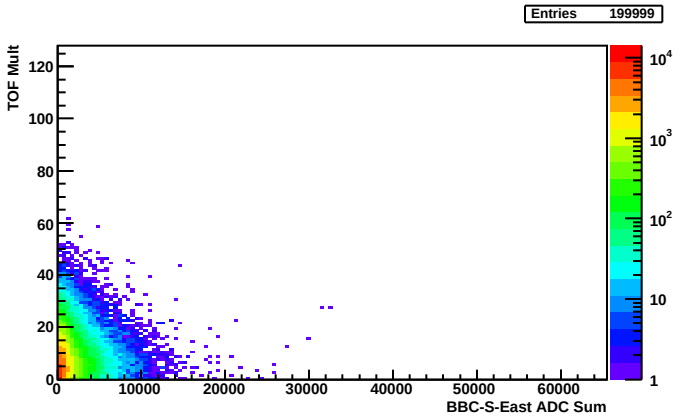

BBQ-VP003 (HI threshold)
Entries 3199984
TAC
QT Input Channel

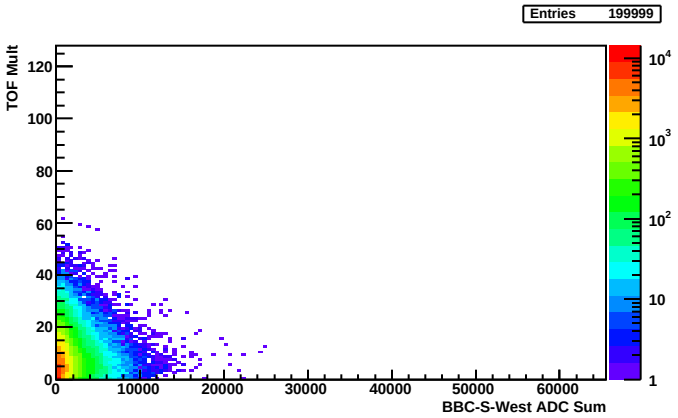

BBQ-VP004 (HI threshold)
Entries 3199984
ADC
QT Input Channel

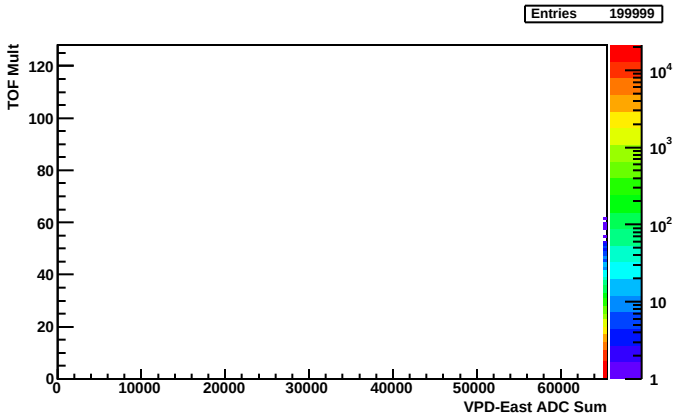

BBQ-VP004 (HI threshold)
Entries 3199984
TAC
QT Input Channel

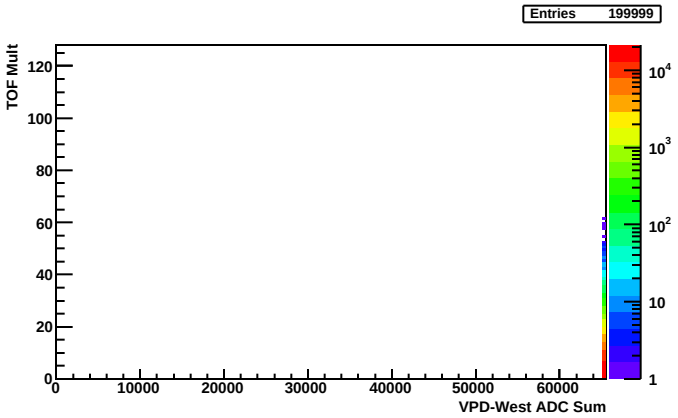

Entries 199999
TOF Mult
BBC-L-East ADC Sum

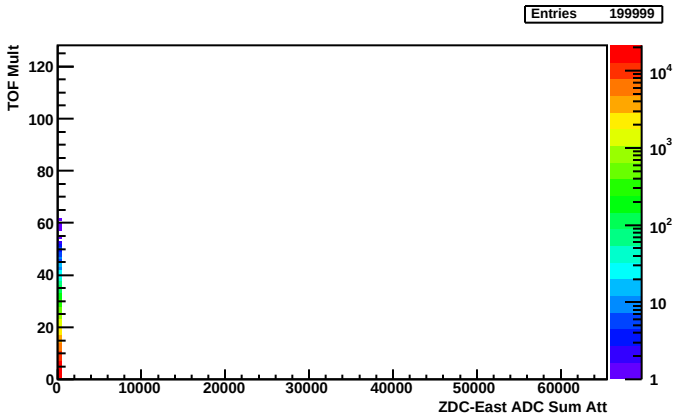

Entries 199999
TOF Mult
BBC-L-West ADC Sum

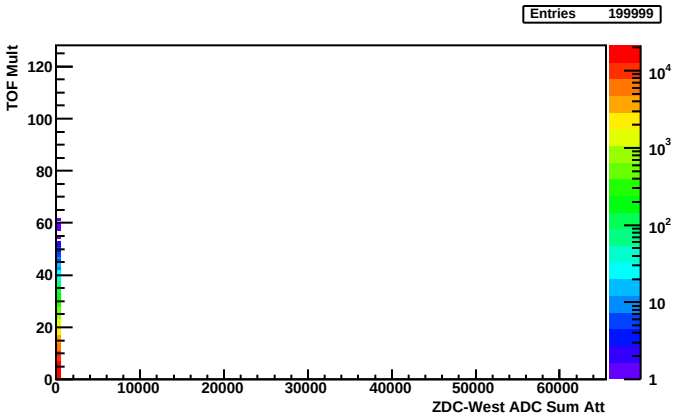

Entries 199999
TOF Mult
BBC-S-East ADC Sum

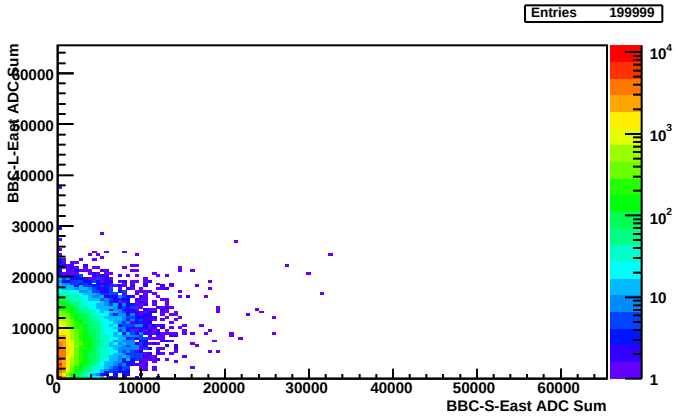

Entries 199999
TOF Mult
BBC-S-West ADC Sum

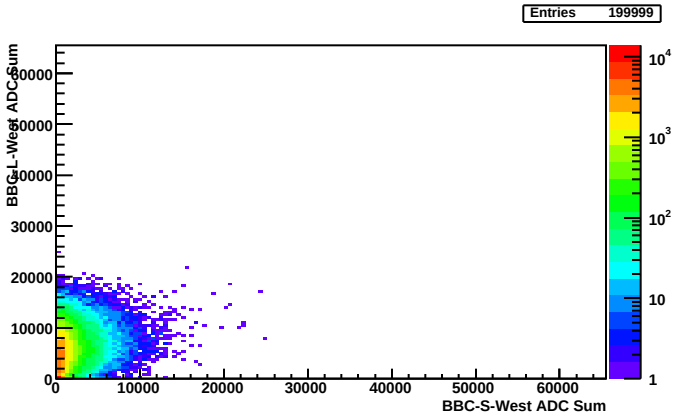

Entries 199999
TOF Mult
VPD-East ADC Sum

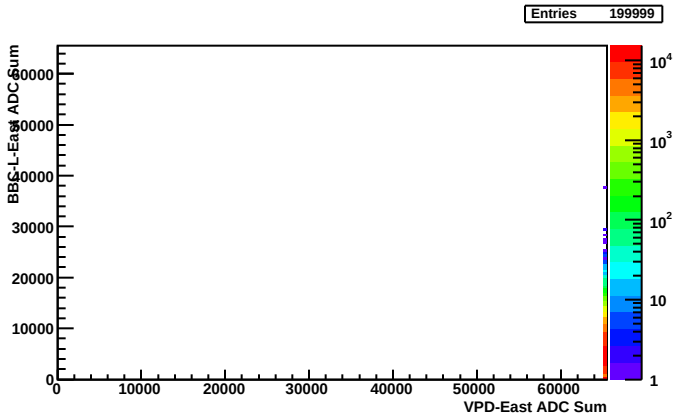

Entries 199999
TOF Mult
VPD-West ADC Sum

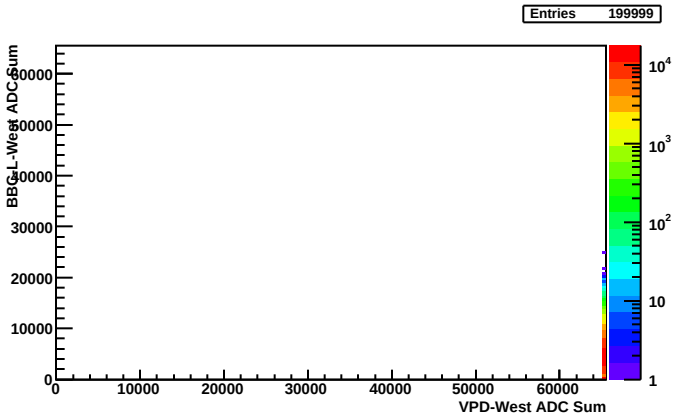

Entries 199999
TOF Mult
ZDC-East ADC Sum Att

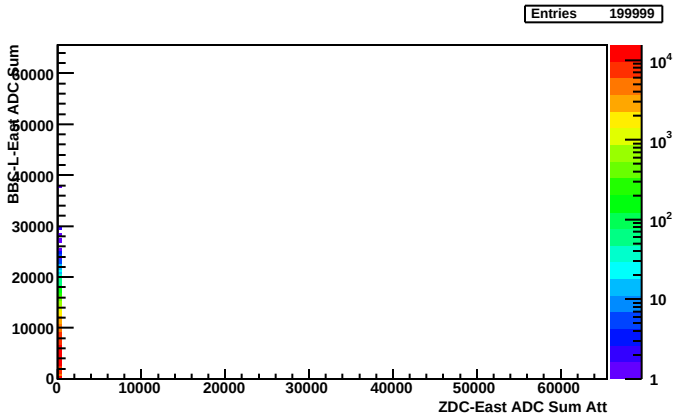

Entries 199999
TOF Mult
ZDC-West ADC Sum Att


Entries 199999
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 199999
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 199999
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 199999
BBC-L-West ADC Sum
VPD-West ADC Sum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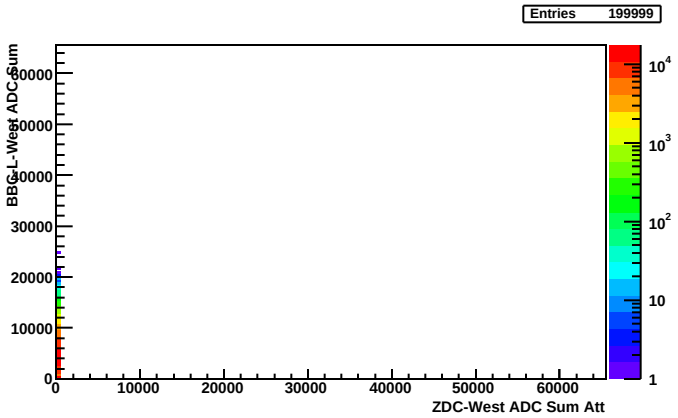
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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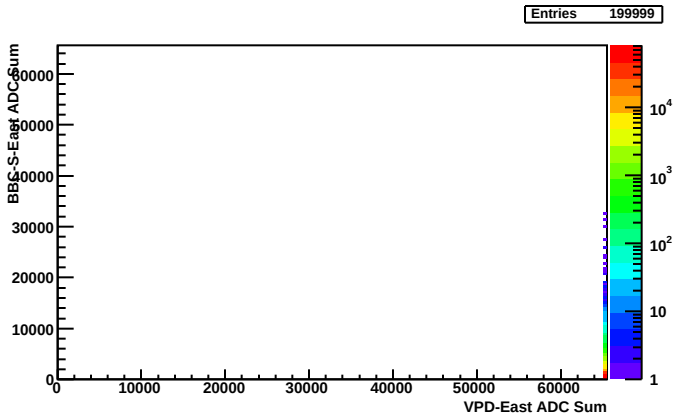
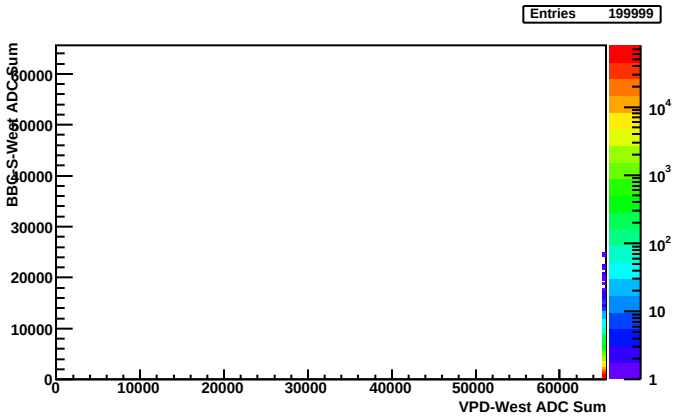
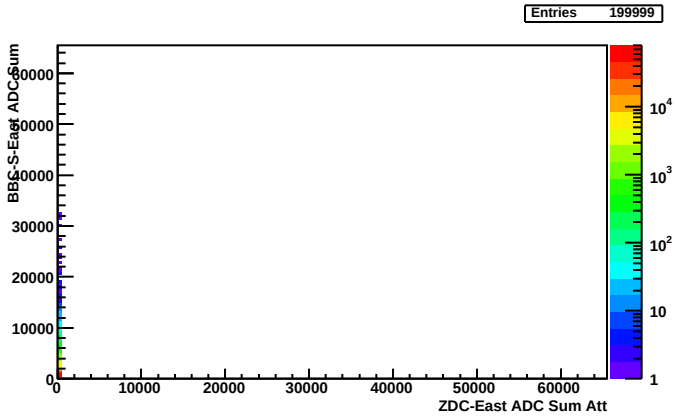
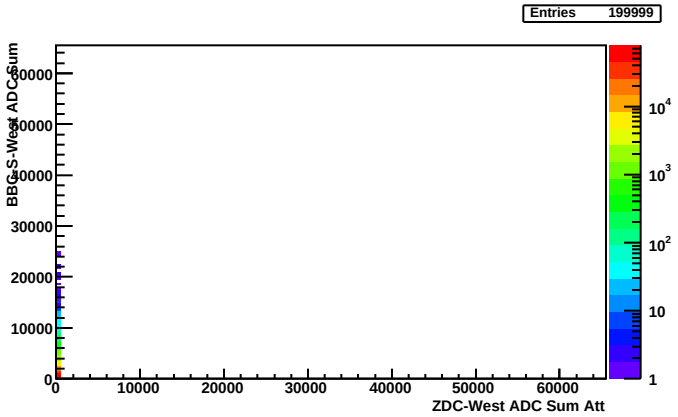
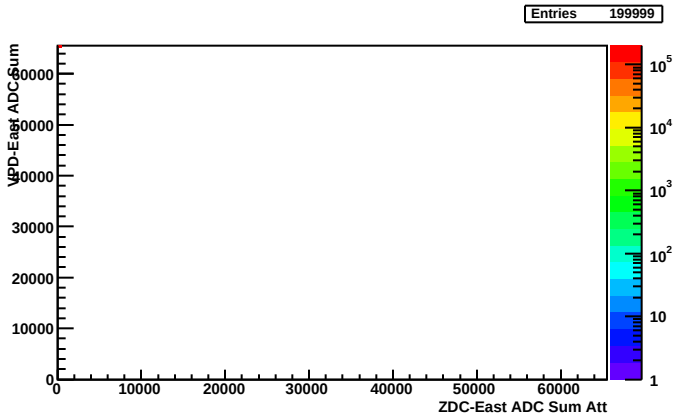
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

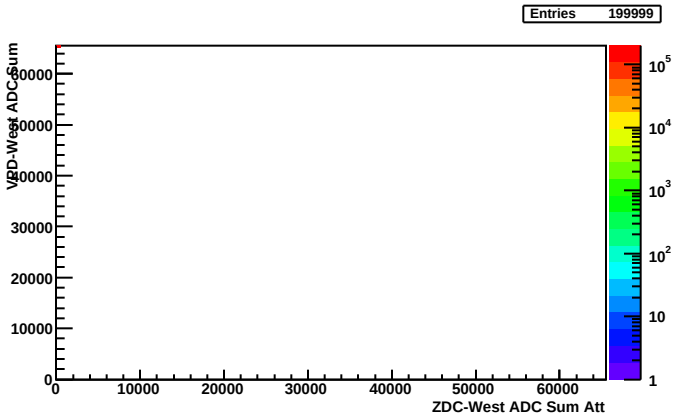

Entries 199999
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 199999
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 199999
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 199999
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 199999
VPD-East ADC Sum
ZDC-East ADC Sum Att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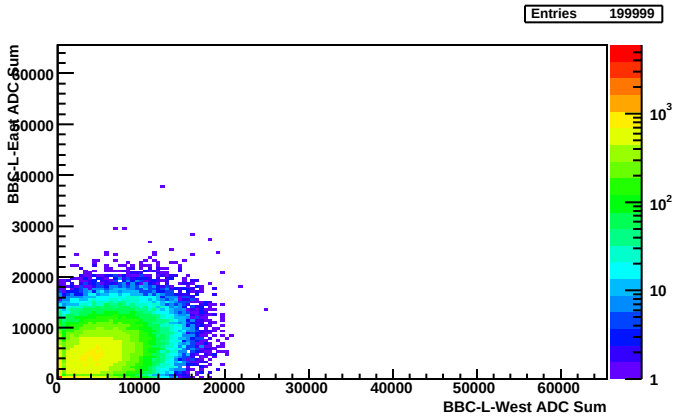
VPD-West ADC Sum
ZDC-West ADC Sum Att


Entries 199999
BBC-L-East ADC Sum
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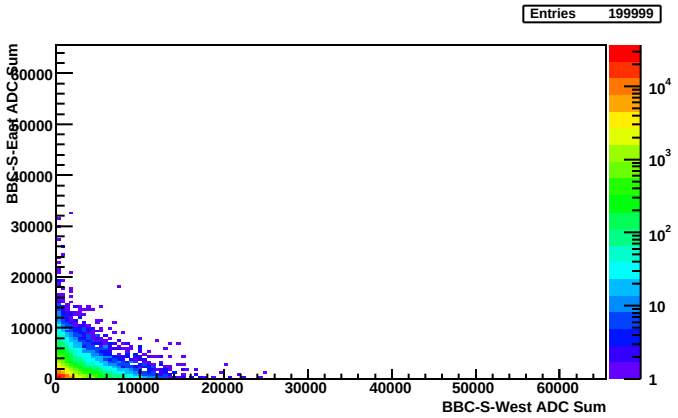
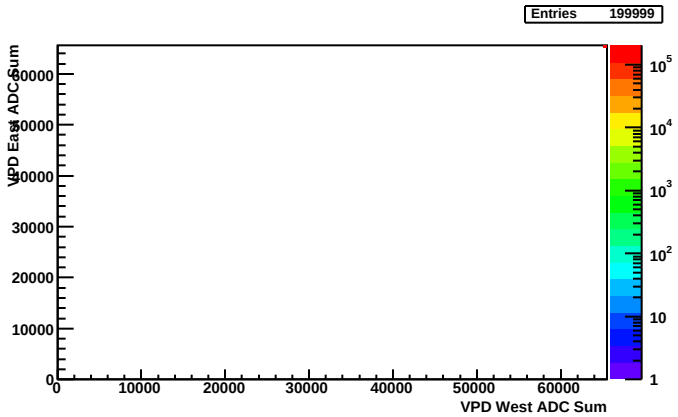
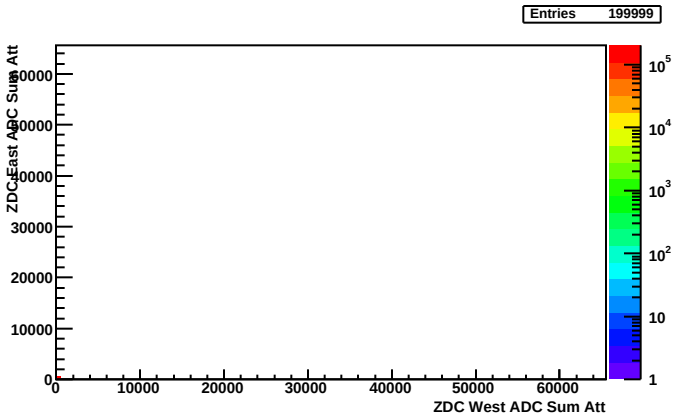
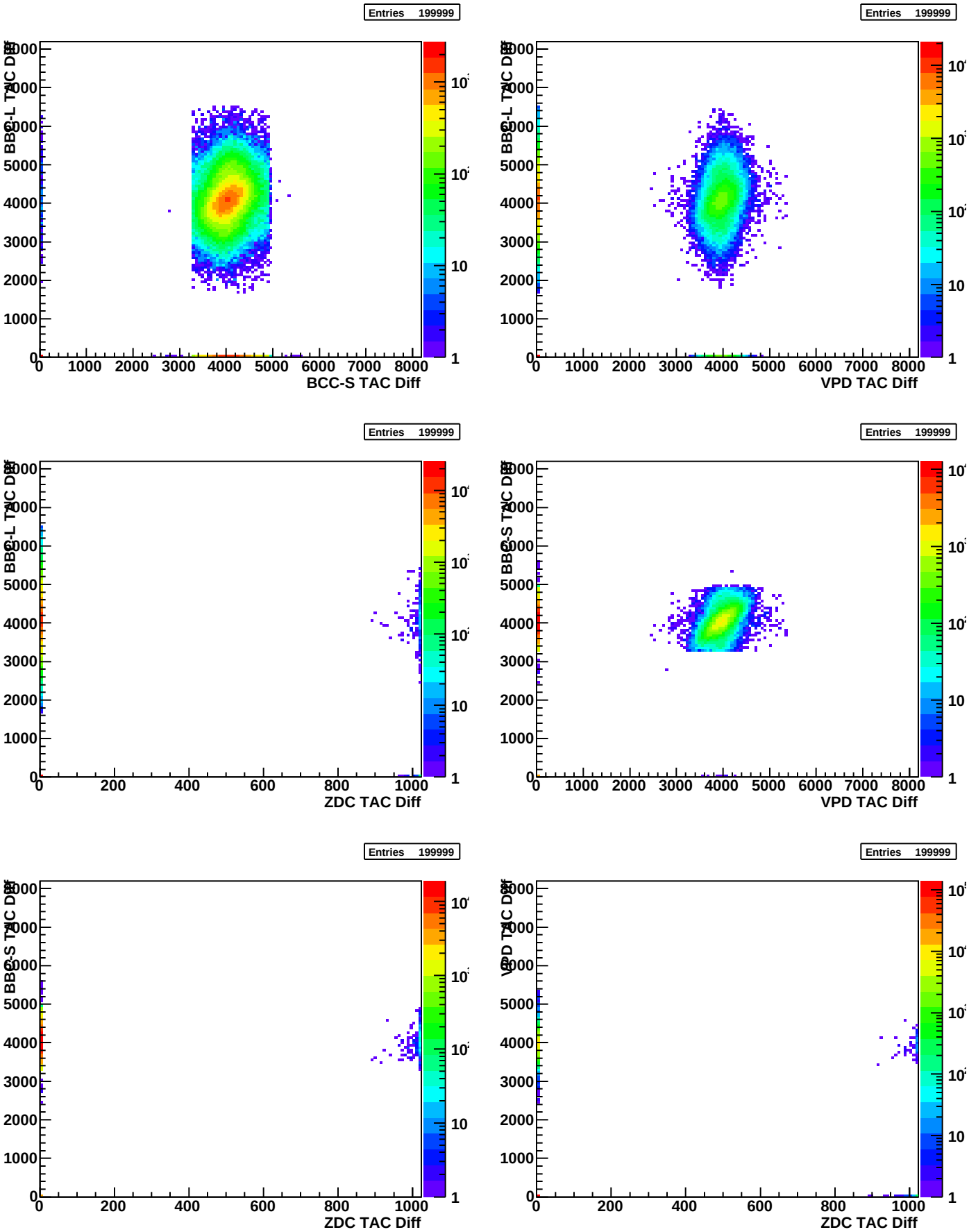
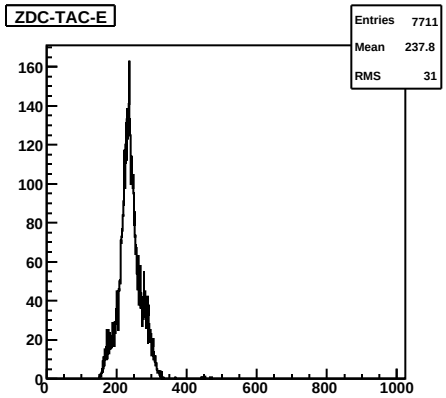
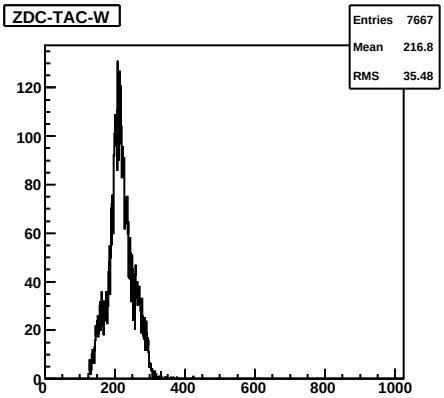

Entries 199999
BBC-S-East ADC Sum
BBC-S-West ADC Sum

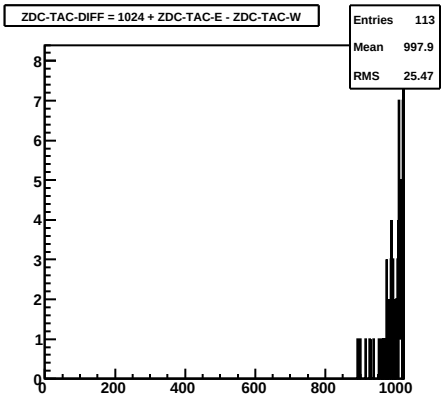

Entries 199999
VPD East ADC Sum
VPD West ADC Sum

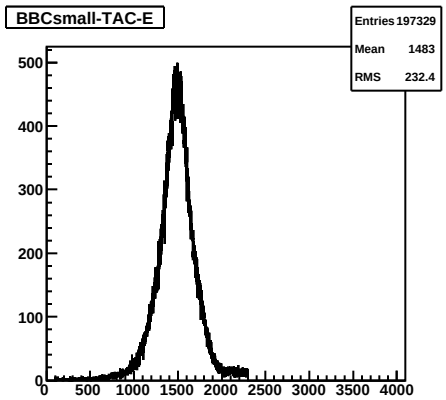

Entries 199999
ZDC-East ADC Sum Att
ZDC West ADC Sum Att

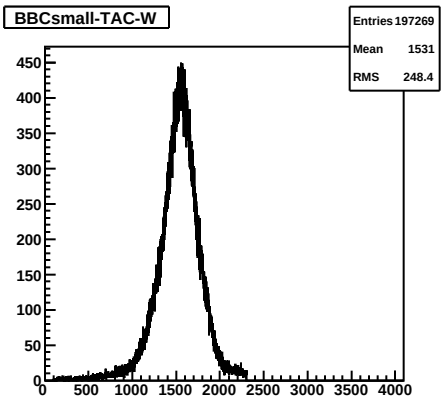

Entries 199999
BBC-L TAC Diff
BCC-S TAC Diff
Entries 199999
BBC-L TAC Diff
VPD TAC Diff
Entries 199999
BBC-L TAC Diff
ZDC TAC Diff
Entries 199999
BBC-S TAC Diff
VPD TAC Diff
Entries 199999
BBC-S TAC Diff
ZDC TAC Diff
Entries 199999
VPD TAC Diff
ZDC TAC Diff

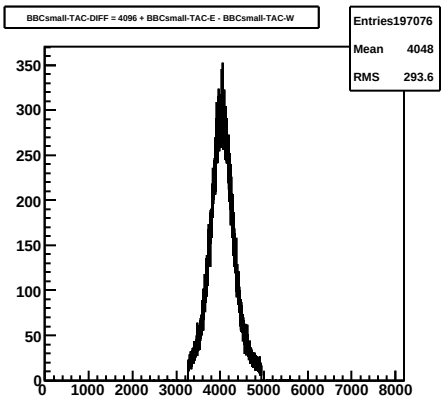

ZDC-TAC-E
Entries 7711
Mean 237.8
RMS 31

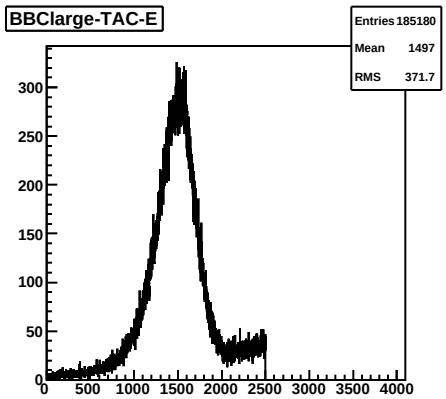

ZDC-TAC-W
Entries 7667
Mean 216.8
RMS 35.48

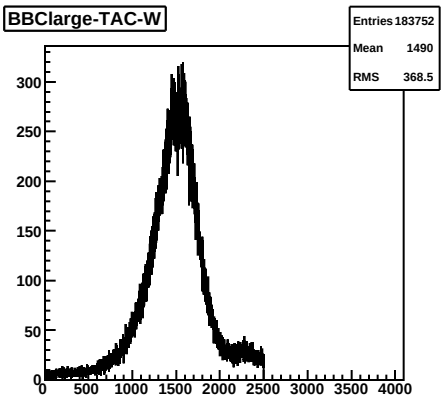

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 113
Mean 997.9
RMS 25.47

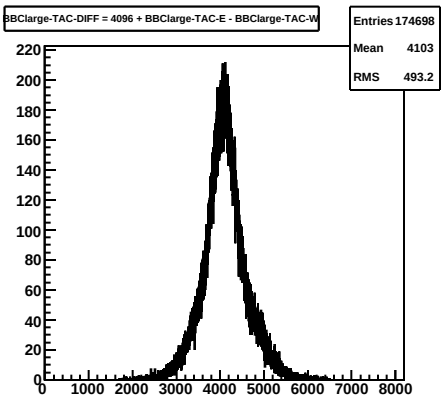

BBCsmall-TAC-E
Entries 197329
Mean 1483
RMS 232.4

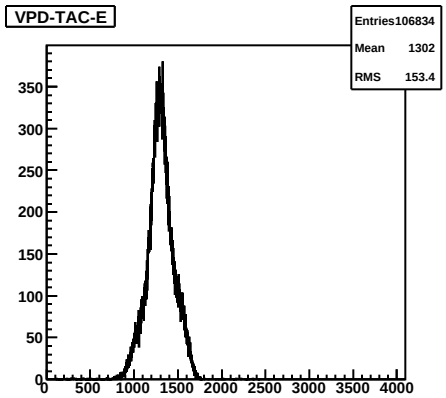

BBCsmall-TAC-W
Entries 197269
Mean 1531
RMS 248.4

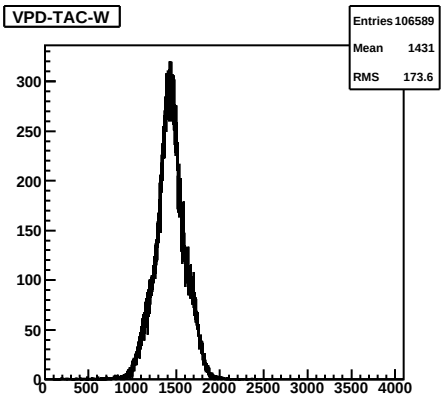

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries197076
Mean 4048
RMS 293.6

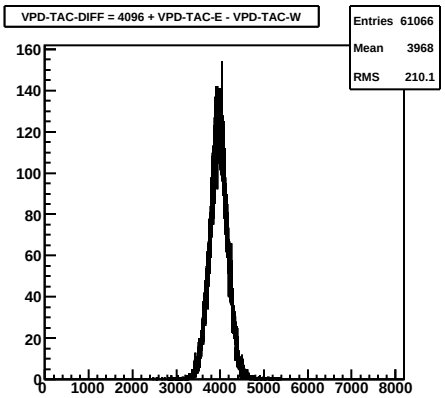

BBClarge-TAC-E
Entries 185180
Mean 1497
RMS 371.7

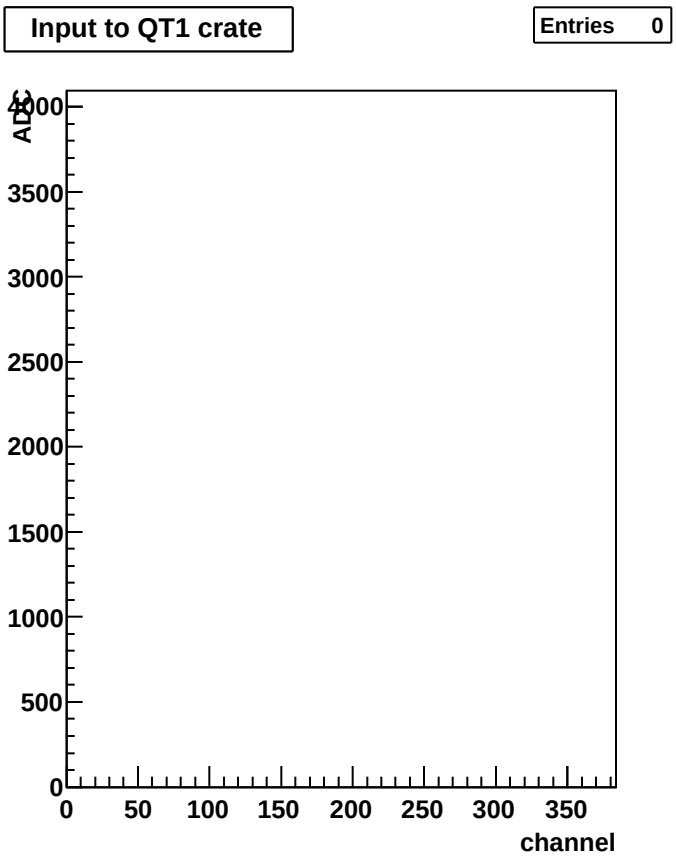

BBClarge-TAC-W
Entries 183752
Mean 1490
RMS 368.5

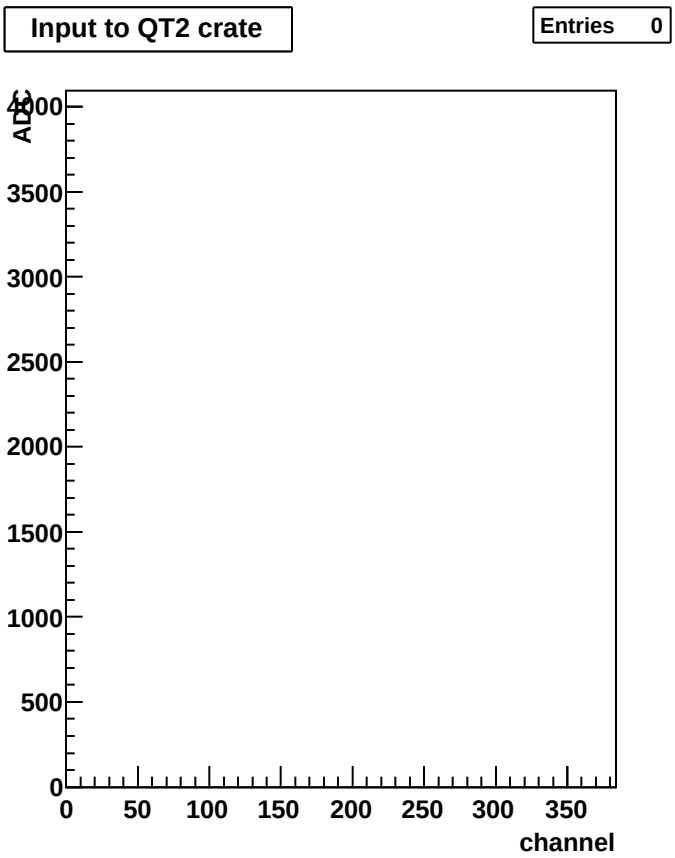

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 174698
Mean 4103
RMS 493.2

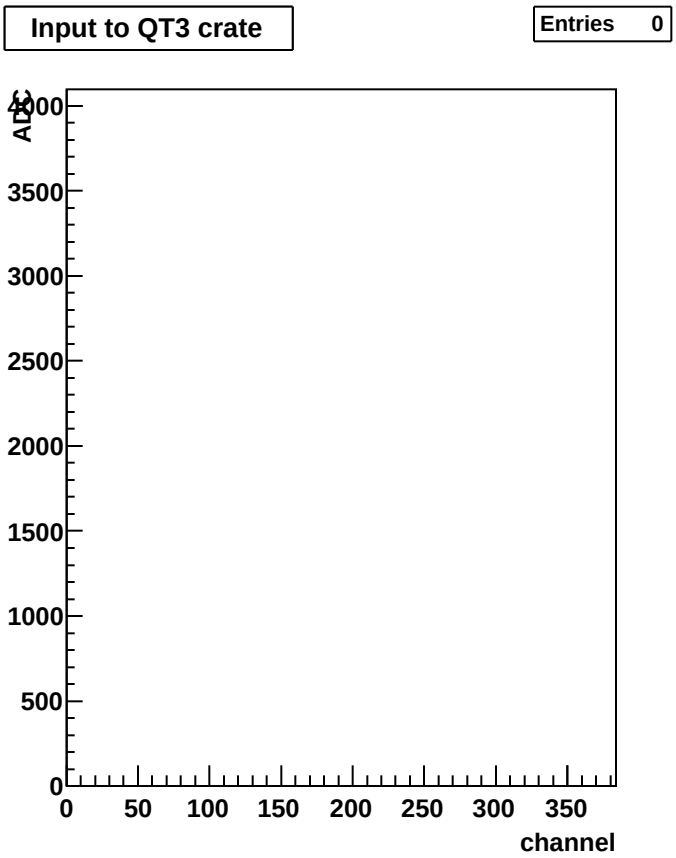

VPD-TAC-E
Entries106834
Mean 1302
RMS 153.4

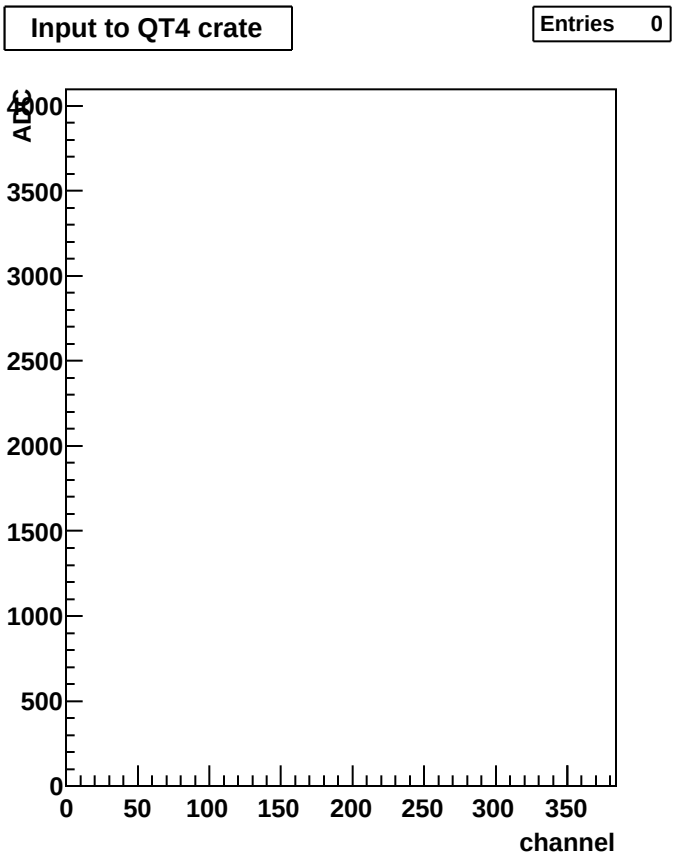

VPD-TAC-W
Entries 106589
Mean 1431
RMS 173.6

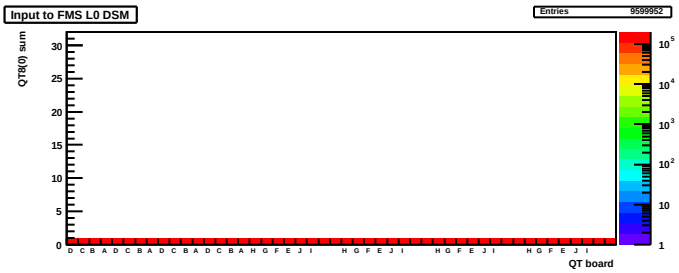

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 61066
Mean 3968
RMS 210.1

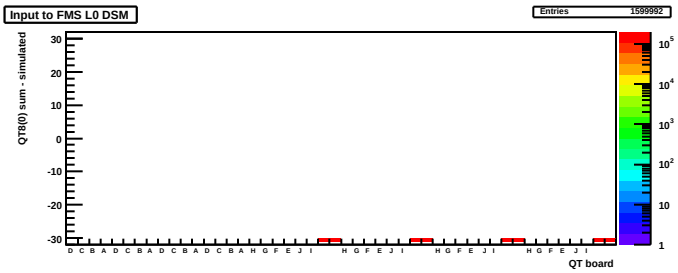

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

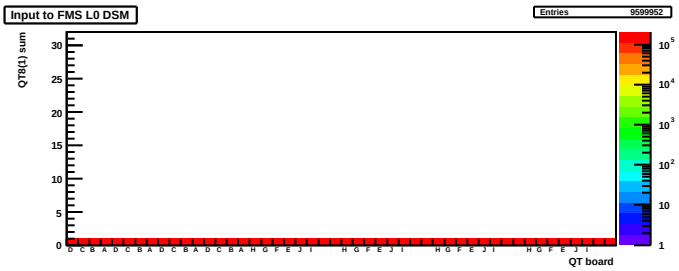

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

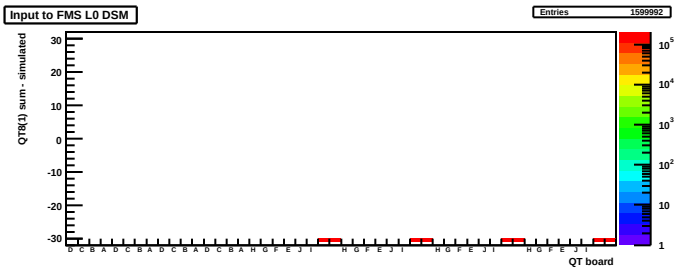

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

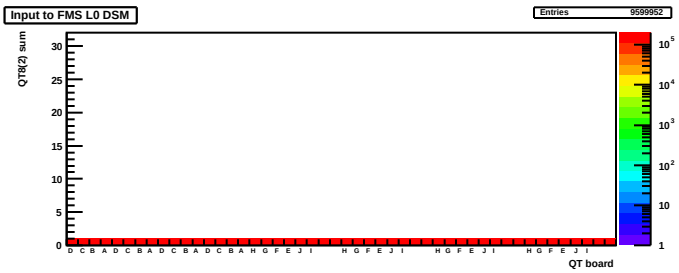

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

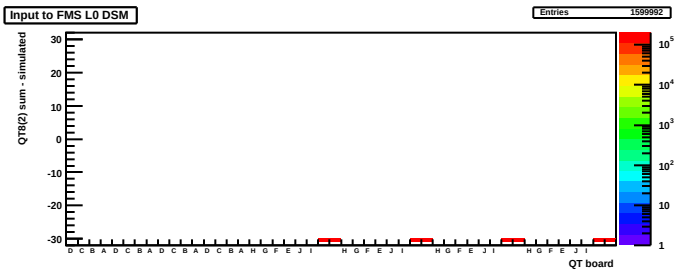

Input to FMS L0 DSM
Entries 9599952
QT8(0) sum
QT board

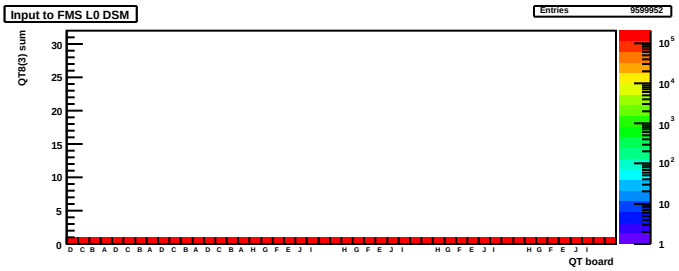

Input to FMS L0 DSM
Entries 1599992
QT8(0) sum - simulated
QT board

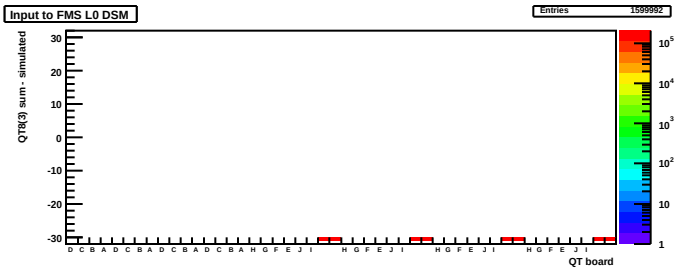

Input to FMS L0 DSM
Entries 9599952
QT8(1) sum
QT board

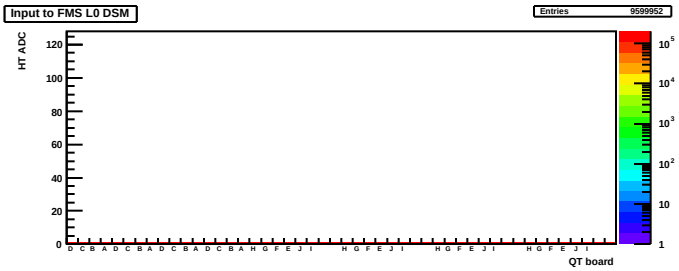

Input to FMS L0 DSM
Entries 1599992
QT8(1) sum - simulated
QT board

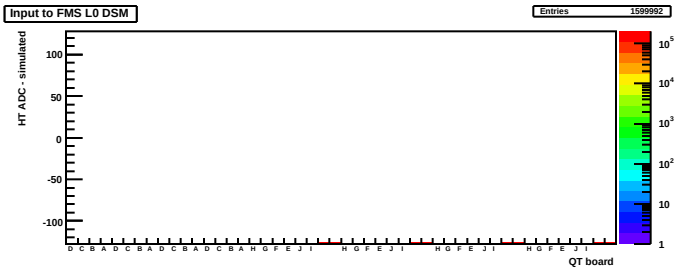

Input to FMS L0 DSM
Entries 9599952
QT8(2) sum
QT board

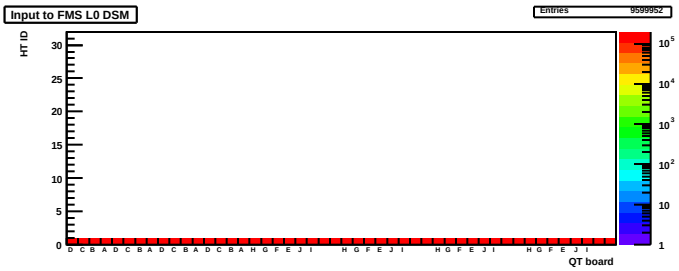

Input to FMS L0 DSM
Entries 1599992
QT8(2) sum - simulated
QT board

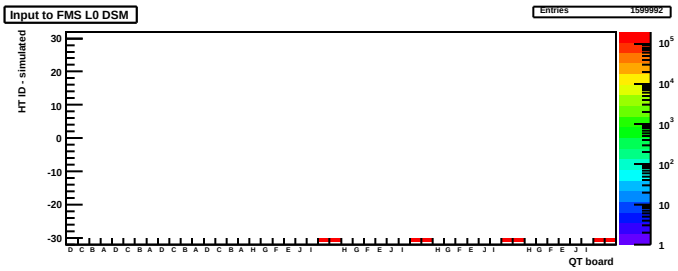

Input to FMS L0 DSM
Entries 9599952
QT8(3) sum
QT board

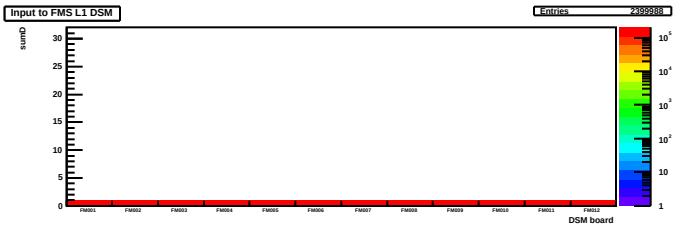

Input to FMS L0 DSM
Entries 1599992
QT8(3) sum - simulated
QT board

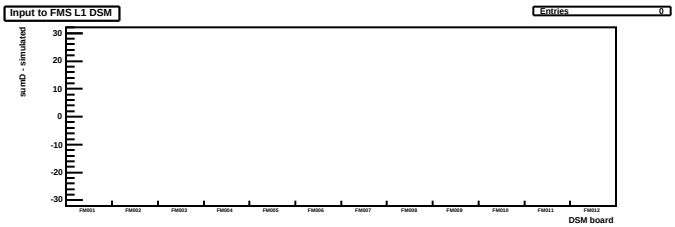

Input to FMS L0 DSM
Entries 9599952
HT ADC
QT board

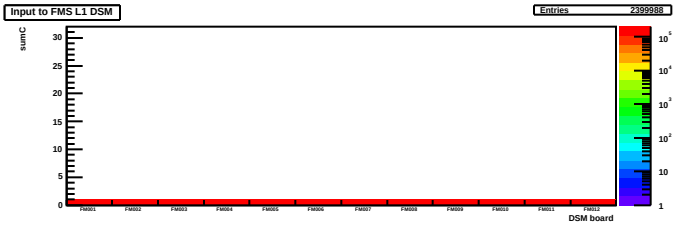

Input to FMS L0 DSM
Entries 1599992
HT ADC - simulated
QT board

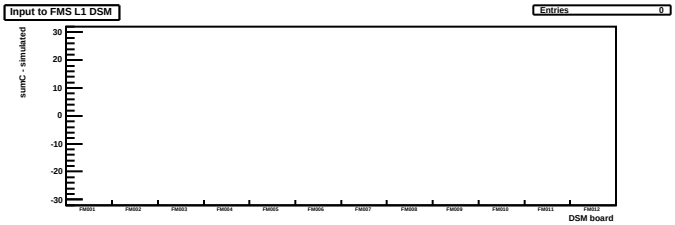

Input to FMS L0 DSM
Entries 9599952
HT ID
QT board

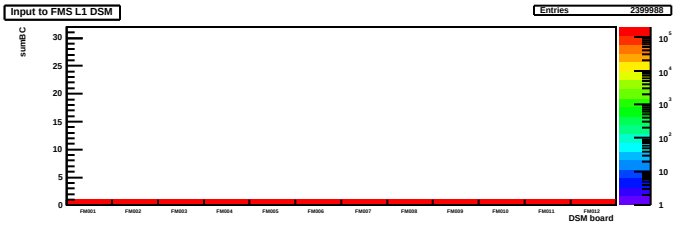

Input to FMS L0 DSM
Entries 1599992
HT ID - simulated
QT board

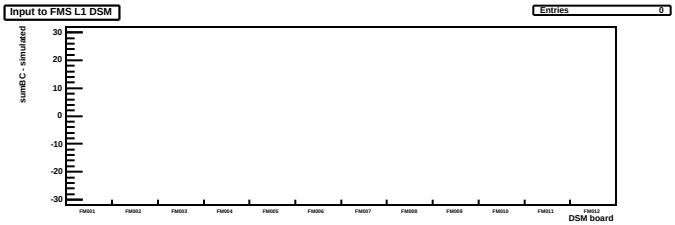

Input to FMS L1 DSM
Entries 2399988
sumD
DSM board

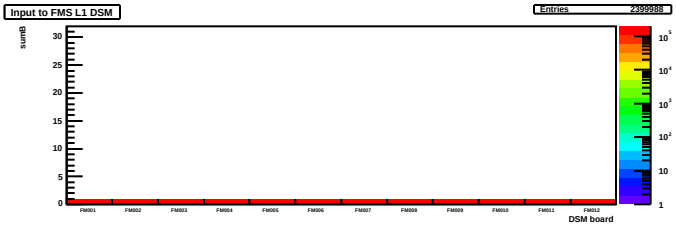

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

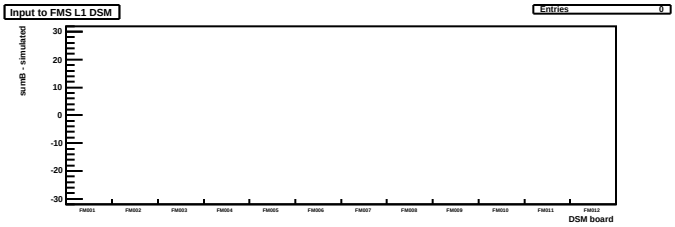

Input to FMS L1 DSM
Entries 2399988
sumC
DSM board

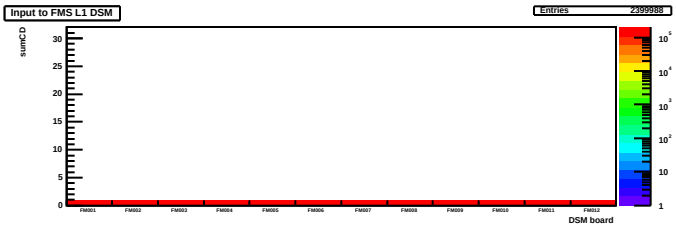

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

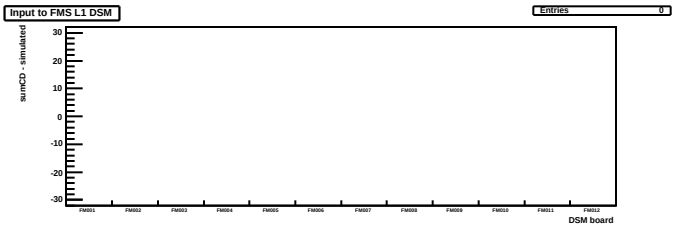

Input to FMS L1 DSM
Entries 2399988
sumBC
DSM board

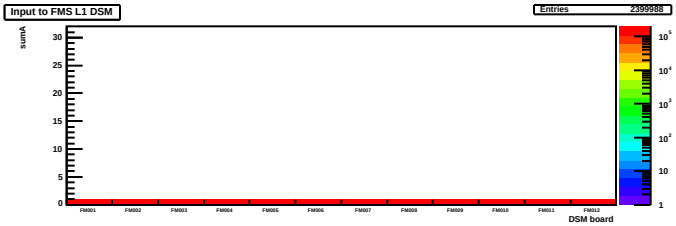

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

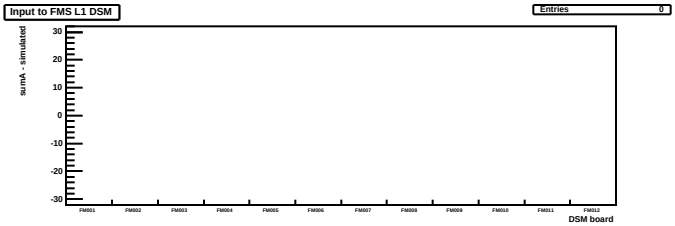

Input to FMS L1 DSM
Entries 2399988
sumB
DSM board

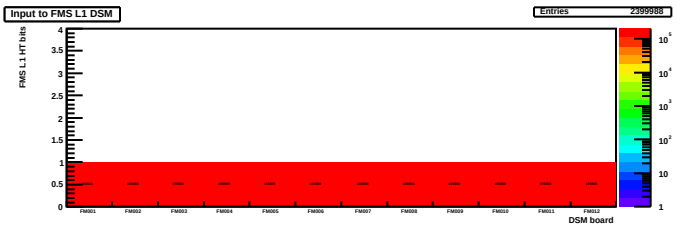

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

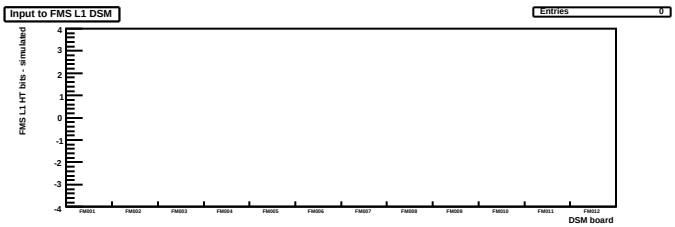

Input to FMS L1 DSM
Entries 2399988
sumCD
DSM board

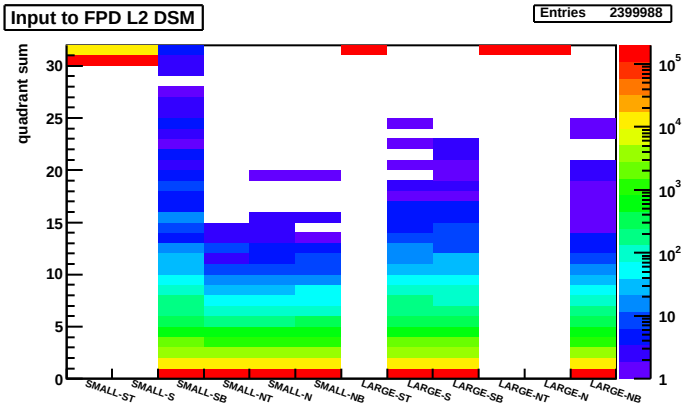

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

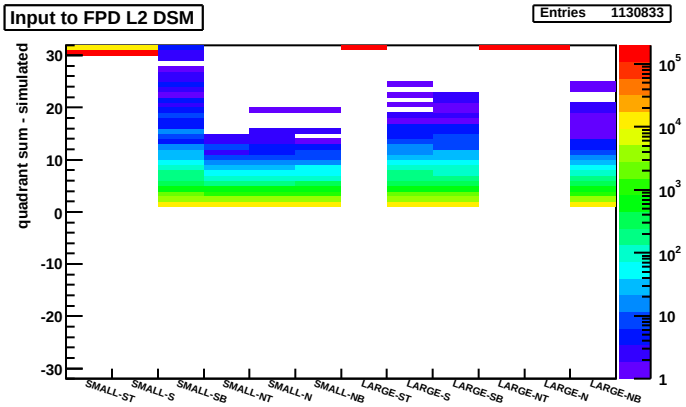

Input to FMS L1 DSM
Entries 2399988
sumA
DSM board

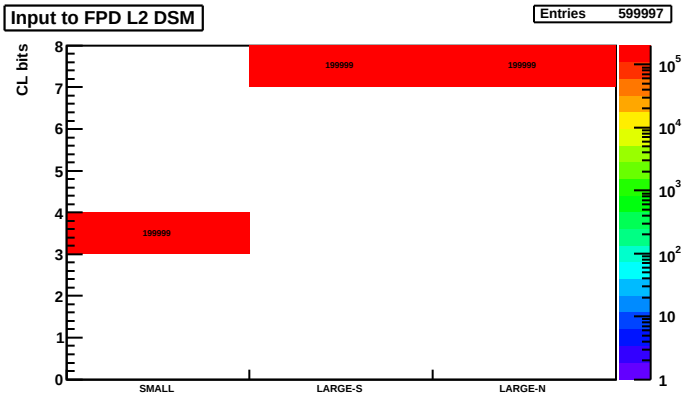

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

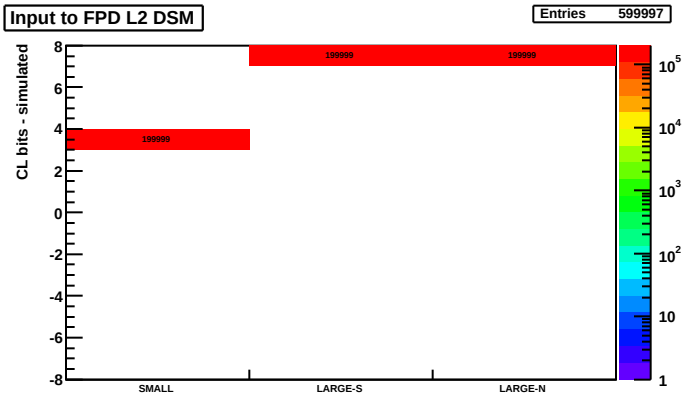

Input to FMS L1 DSM
Entries 2399988
FMS L1 HT bits
DSM board

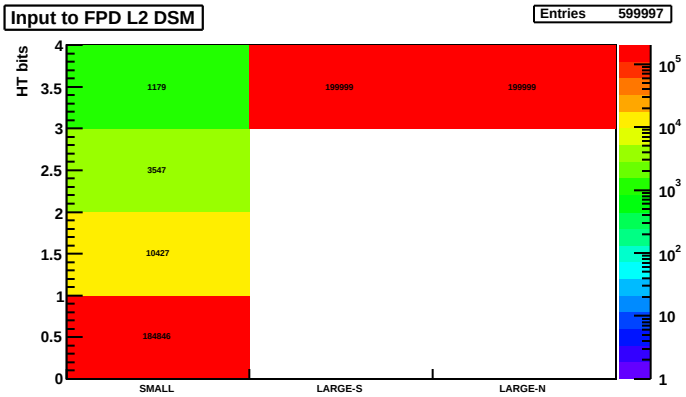

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

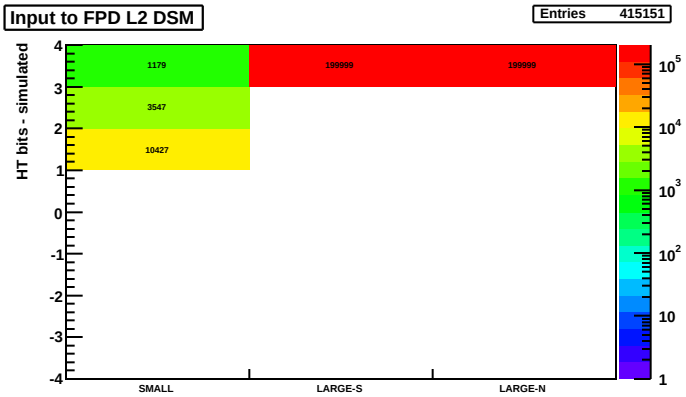

Input to FPD L2 DSM
Entries 2399988
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

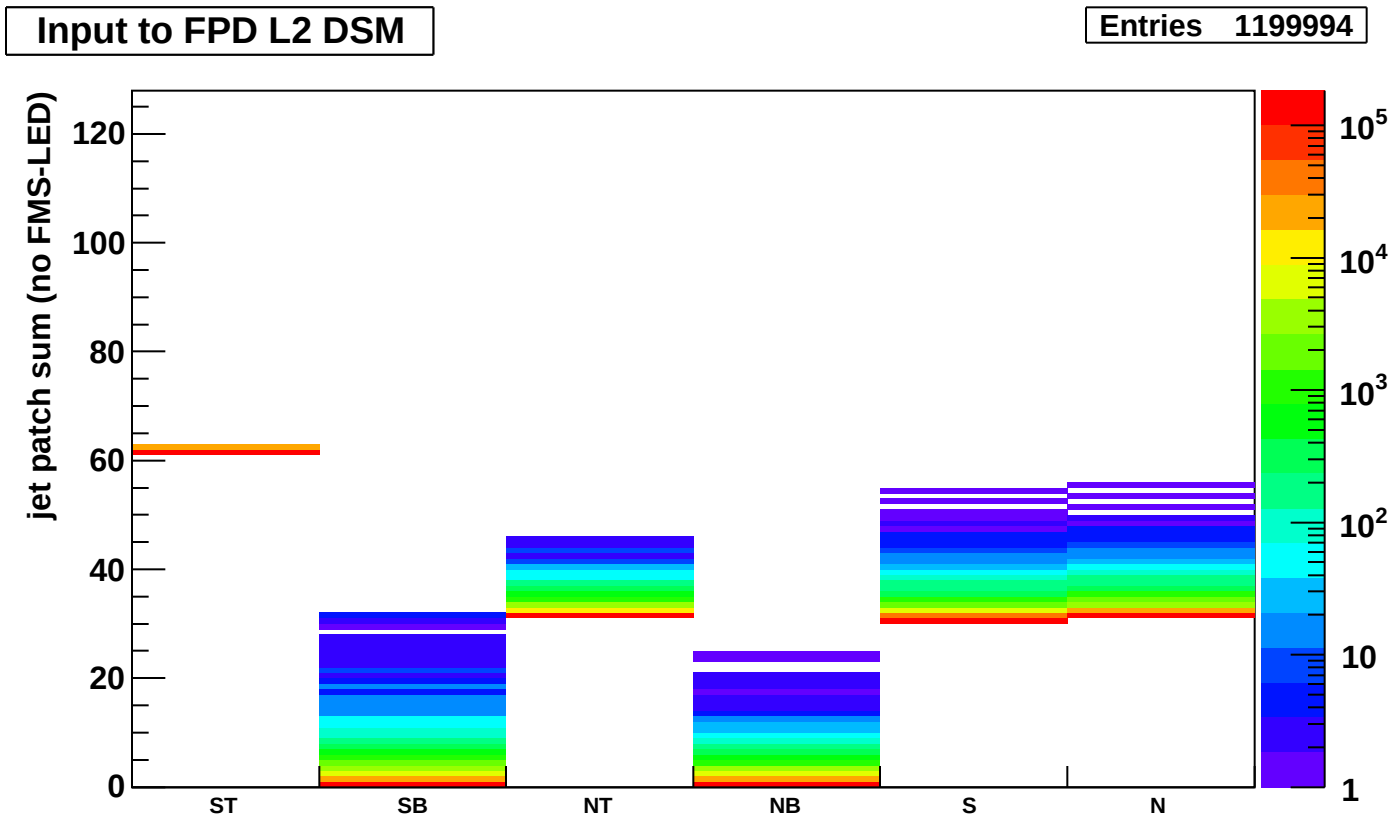

Input to FPD L2 DSM
Entries 1130833
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

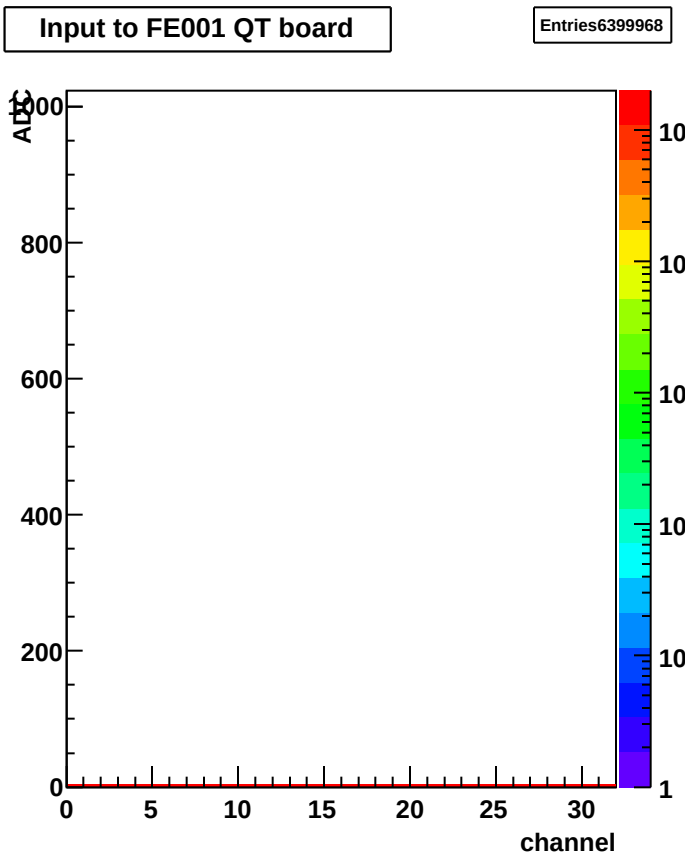

Input to FPD L2 DSM
Entries 599997
CL bits
199999
199999
199999
SMALL
LARGE-S
LARGE-N

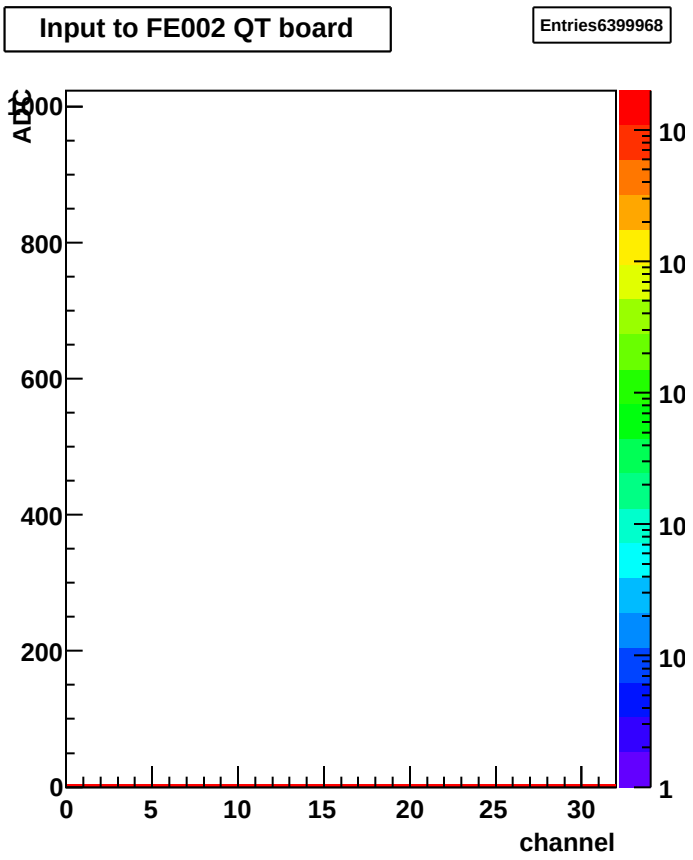

Input to FPD L2 DSM
Entries 599997
CL bits - simulated
199999
199999
199999
SMALL
LARGE-S
LARGE-N

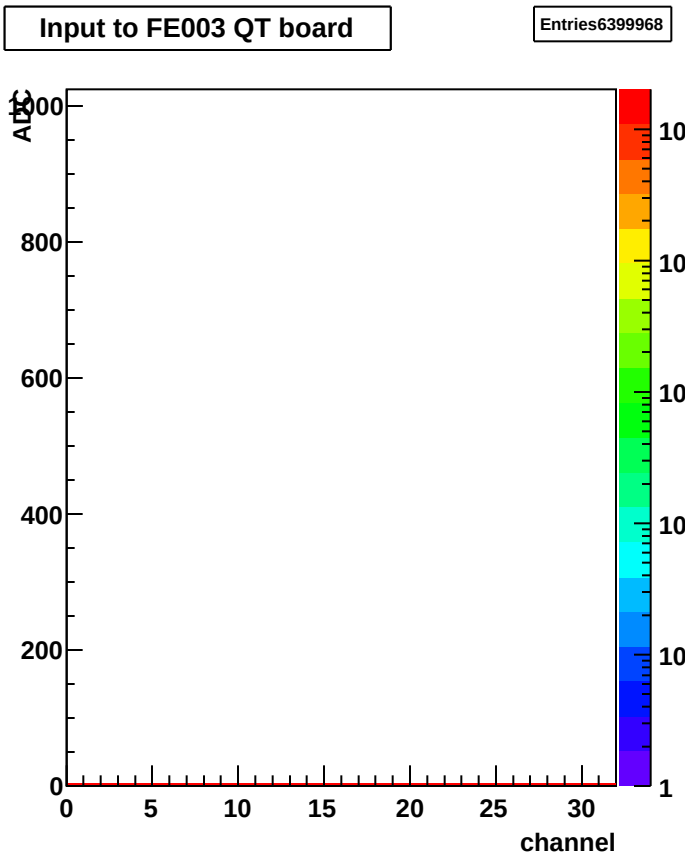

Input to FPD L2 DSM
Entries 599997
HT bits
1179
3547
10427
184846
199999
199999
SMALL
LARGE-S
LARGE-N

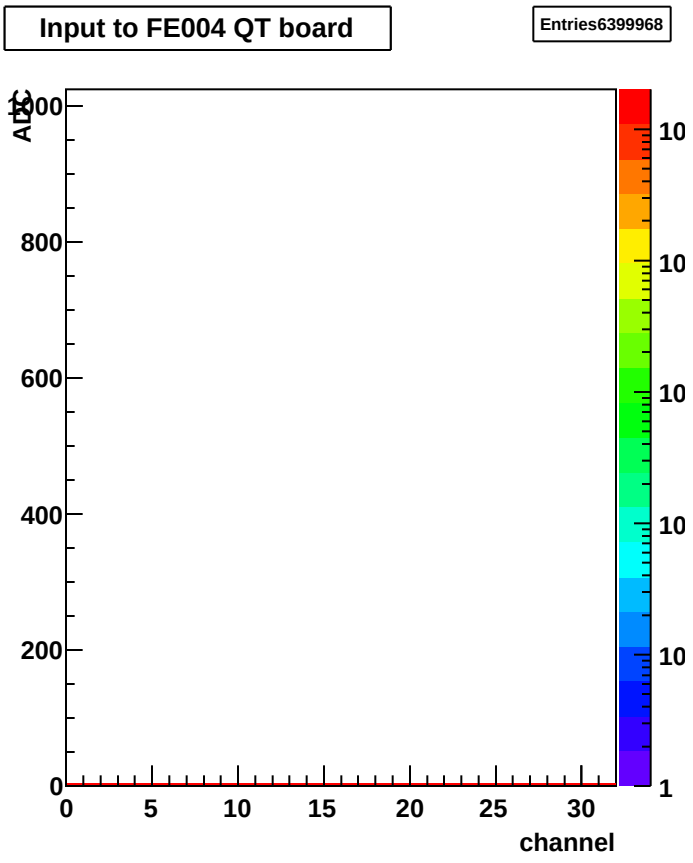

Input to FPD L2 DSM
Entries 415151
HT bits - simulated
1179
3547
10427
199999
199999
SMALL
LARGE-S
LARGE-N

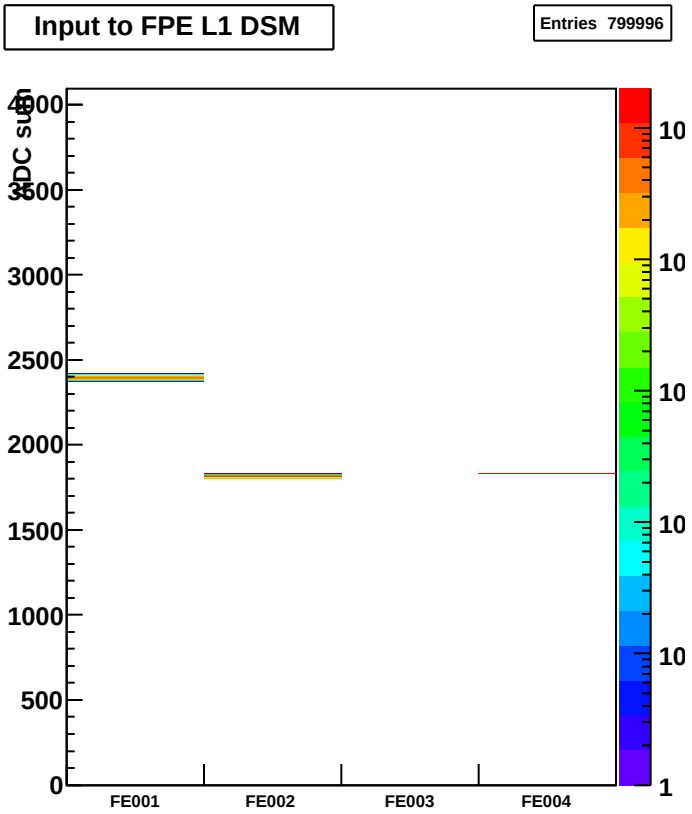

Input to FPD L2 DSM
Entries 1199994
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
$10^2$
$10^3$
$10^4$
$10^5$

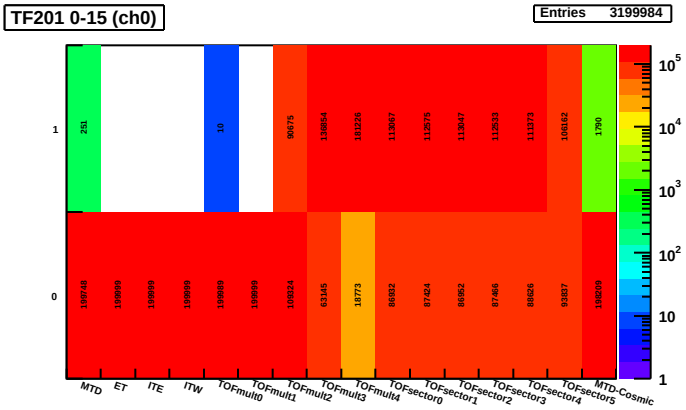

Input to FE001 QT board
Entries6399968
ADC
channel

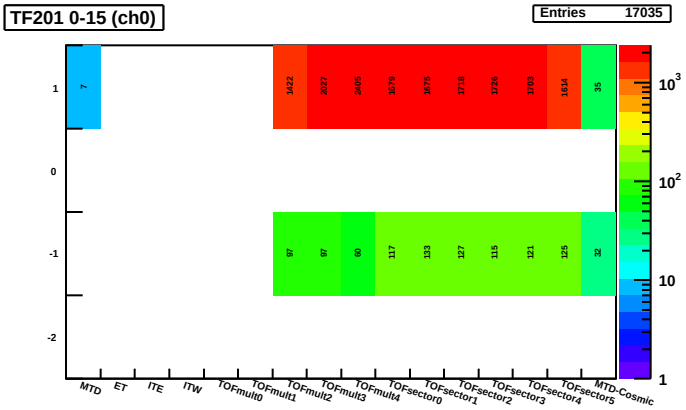

Input to FE002 QT board
Entries6399968
ADC
channel

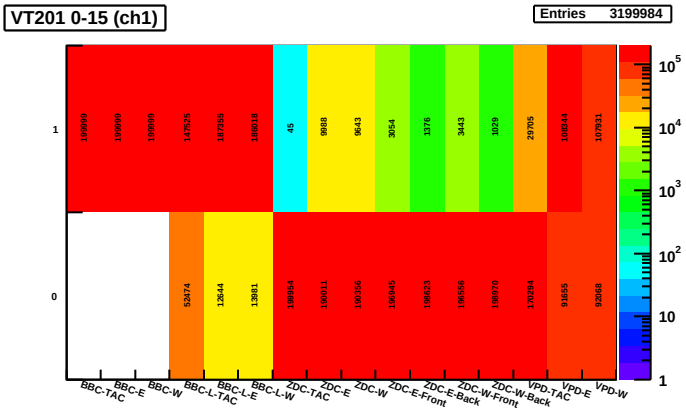

Input to FE003 QT board
Entries6399968
ADC
channel

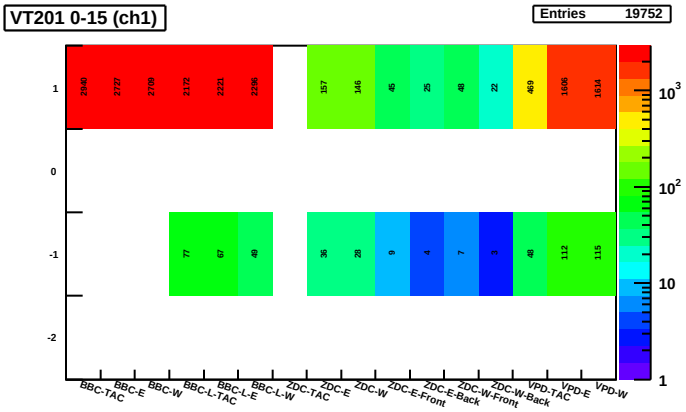

Input to FE004 QT board
Entries6399968
ADC
channel

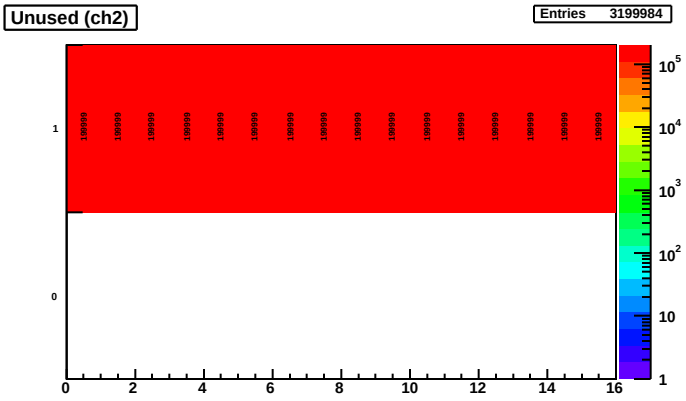

Input to FPE L1 DSM
Entries 799996
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

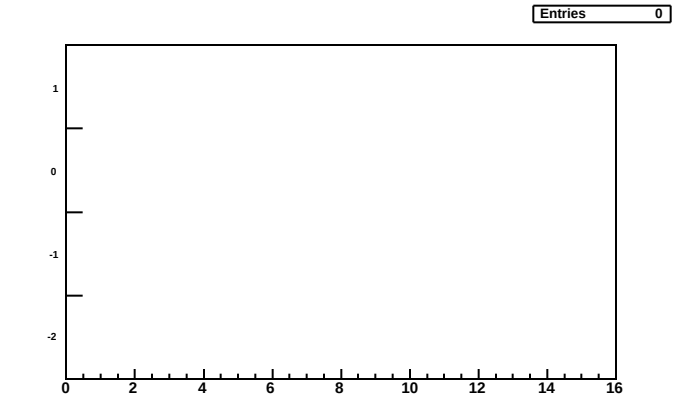

TF201 0-15 (ch0)
Entries 3199984
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

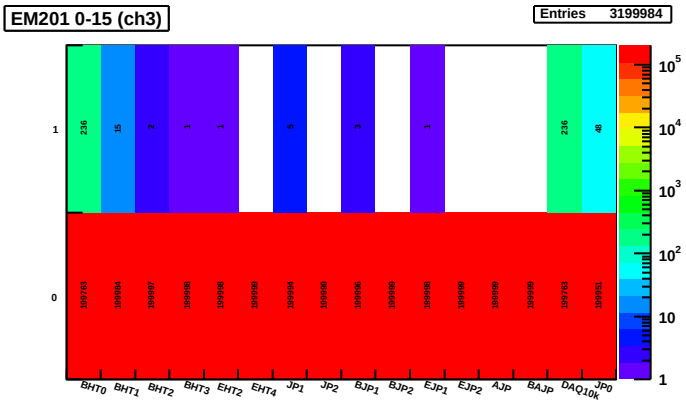

TF201 0-15 (ch0)
Entries 17035
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

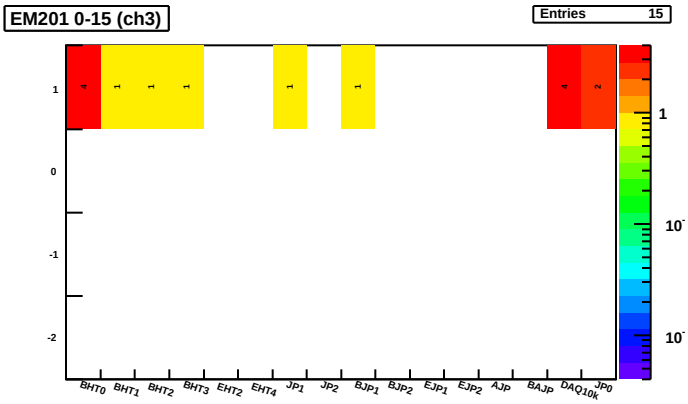

VT201 0-15 (ch1)
Entries 3199984
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

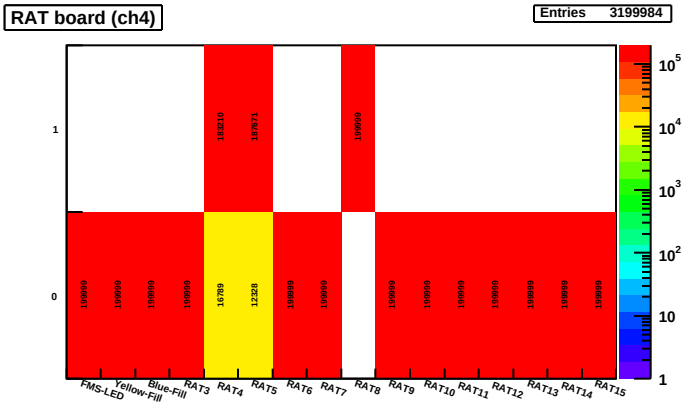

VT201 0-15 (ch1)
Entries 19752
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

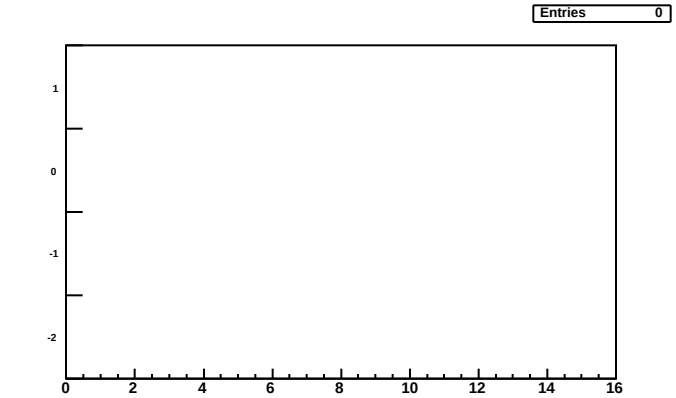

Unused (ch2)
Entries 3199984

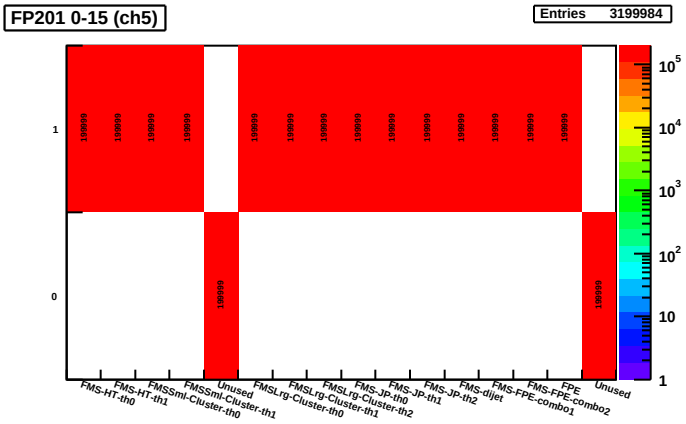

Entries 0

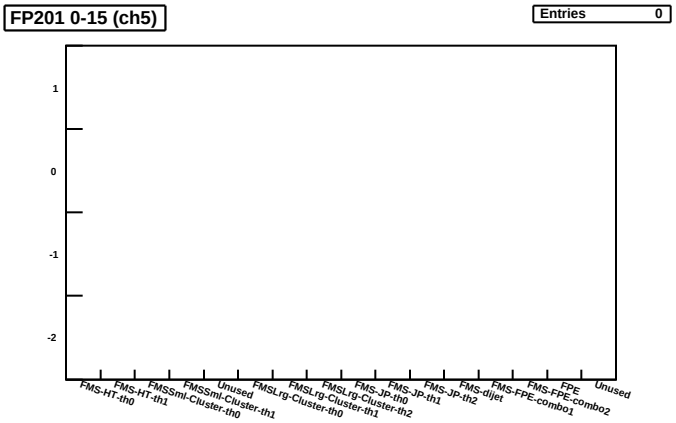

EM201 0-15 (ch3)
Entries 3199984
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

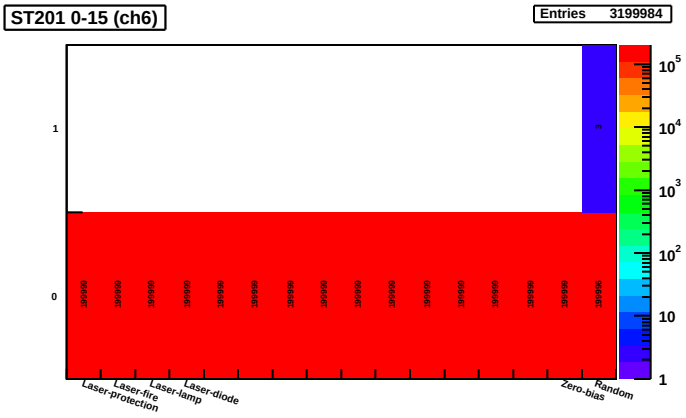

EM201 0-15 (ch3)
Entries 15
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

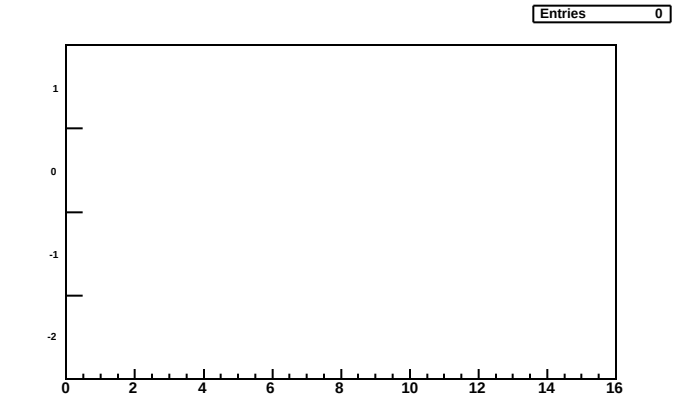

RAT board (ch4)
Entries 3199984
FMS-LED
Yellow-Fill
Blue-Fill
RAT3
RAT4
RAT5
RAT6
RAT7
RAT8
RAT9
RAT10
RAT11
RAT12
RAT13
RAT14
RAT15

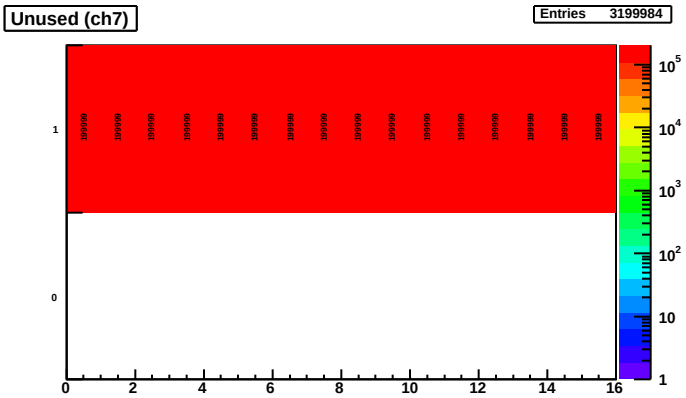

Entries 0

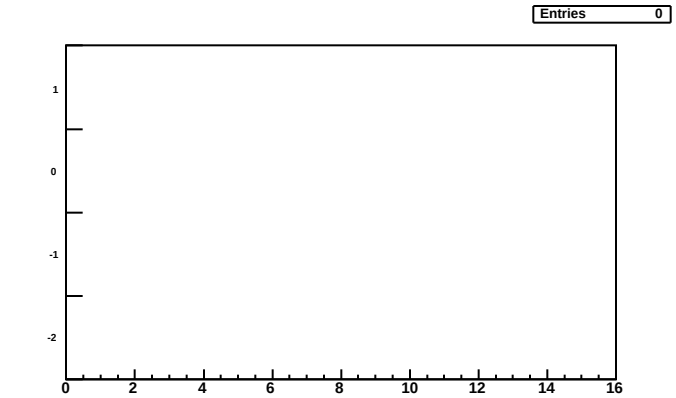

FP201 0-15 (ch5)
Entries 3199984
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
Unused
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-diJet
FMS-FPE-combo1
FMS-FPE-combo2
FPE
Unused


FP201 0-15 (ch5)
Entries 0
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
Unused
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-diJet
FMS-FPE-combo1
FMS-FPE-combo2
FPE
Unused


ST201 0-15 (ch6)
Entries 3199984
Laser-protection
Laser-fire
Laser-lamp
Laser-diode
Zero-bias
Random


Entries 0


Unused (ch7)
Entries 3199984


Entries 0